

**Annual Administrative Code Supplement  
2023 Edition**

**DEPARTMENT OF LABOR AND ECONOMIC OPPORTUNITY**

**MICHIGAN OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION**

**GENERAL INDUSTRY AND CONSTRUCTION SAFETY AND HEALTH STANDARD**

**PART 505. CORONAVIRUS DISEASE 2019 (COVID-19) FOR HEALTHCARE**

**R 408.1**

Source: 2021 AACCS.

**R 408.2**

Source: 2021 AACCS.

**DEPARTMENT OF LABOR AND ECONOMIC OPPORTUNITY**

**WORKERS' DISABILITY COMPENSATION AGENCY**

**GENERAL RULES**

**PART 1. DEFINITIONS**

**R 408.31**

Source: 2021 AACCS.

**PART 2. RECORDS**

**R 408.31a**

Source: 2021 AACCS.

**R 408.31b**

Source: 2021 AACCS.

**R 408.32**

Source: 2021 AACCS.

**R 408.32a**

Source: 2021 AACCS.

**R 408.33**

Source: 2021 AACCS.

**PART 3. HEARINGS**

**R 408.34**

Source: 2021 AACCS.

**R 408.35**

Source: 2021 AACCS.

**R 408.36**

Source: 2021 AACCS.

**R 408.37 Rescinded.**

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History: 1979 AC; 1998-2000 AACS.

**R 408.38**

Source: 2021 AACS.

**R 408.39**

Source: 2021 AACS.

**R 408.40**

Source: 2021 AACS.

**R 408.40a**

Source: 1998-2000 AACS.

**R 408.40b**

Source: 2021 AACS.

**R 408.40c**

Source: 1998-2000 AACS.

**R 408.40d**

Source: 1998-2000 AACS.

**R 408.40e**

Source: 1998-2000 AACS.

**R 408.40f**

Source: 1998-2000 AACS.

**R 408.40g**

Source: 1998-2000 AACS.

**R 408.40h**

Source: 1998-2000 AACS.

**PART 3. INSURANCE**

**R 408.41**

Source: 2021 AACS.

**R 408.41a**

Source: 2021 AACS.

**R 408.41b**

Source: 2021 AACS.

**R 408.41c**

Source: 2021 AACS.

**R 408.42**

Source: 2021 AACS.

**R 408.42a**

Source: 2021 AACS.

**R 408.42b**

Source: 2021 AACS.

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- R 408.43**  
Source: 2021 AACS.
- R 408.43a**  
Source: 2021 AACS.
- R 408.43b**  
Source: 2021 AACS.
- R 408.43c**  
Source: 2021 AACS.
- R 408.43d**  
Source: 2021 AACS.
- R 408.43e**  
Source: 2021 AACS.
- R 408.43f**  
Source: 2021 AACS.
- R 408.43g**  
Source: 2021 AACS.
- R 408.43h**  
Source: 2021 AACS.
- R 408.43i**  
Source: 2021 AACS.
- R 408.43j**  
Source: 2021 AACS.
- R 408.43k**  
Source: 2021 AACS.
- R 408.43m**  
Source: 2021 AACS.
- R 408.43n**  
Source: 2021 AACS.
- R 408.43o**  
Source: 1996 AACS.
- R 408.43p**  
Source: 1980 AACS.
- R 408.43q**  
Source: 2021 AACS.
- R 408.43r**  
Source: 2021 AACS.
- R 408.43s**  
Source: 2021 AACS.

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**R 408.43t**  
Source: 2006 AACS.

**PART 4. MISCELLANEOUS**

**R 408.44**  
Source: 2021 AACS.

**R 408.45**  
Source: 2021 AACS.

**R 408.45a**  
Source: 2021 AACS.

**R 408.45b**  
Source: 2021 AACS.

**R 408.46**  
Source: 2021 AACS.

**R 408.47**  
Source: 2021 AACS.

**R 408.48**  
Source: 2021 AACS.

**PART 5. REVIEW AND APPEAL**

**R 408.49**  
Source: 2021 AACS.

**R 408.50**  
Source: 1998-2000 AACS.

**R 408.51**  
Source: 1998-2000 AACS.

**R 408.52**  
Source: 1998-2000 AACS.

**PART 6. DEFINITIONS**

**R 408.59**  
Source: 2021 AACS.

**DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS**

**BUREAU OF CONSTRUCTION CODES**

**SKI AREA SAFETY – GENERAL RULES**

**R 408.61**  
Source: 2014 AACS.

**R 408.62**

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**Source:** 2008 AACS.

**R 408.65**

**Source:** 2020 AACS.

**R 408.66**

**Source:** 1997 AACS.

**R 408.67**

**Source:** 2014 AACS.

**R 408.68**

**Source:** 1997 AACS.

**R 408.69**

**Source:** 1997 AACS.

**R 408.70**

**Source:** 2014 AACS.

**R 408.71**

**Source:** 1997 AACS.

**R 408.75**

**Source:** 2014 AACS.

**R 408.76**

**Source:** 2014 AACS.

**R 408.77**

**Source:** 1998-2000 AACS.

**R 408.78**

**Source:** 1998-2000 AACS.

**R 408.79**

**Source:** 2014 AACS.

**R 408.80**

**Source:** 1998-2000 AACS.

**R 408.81**

**Source:** 2012 AACS.

**R 408.82**

**Source:** 2018 AACS.

**R 408.83**

**Source:** 1989 AACS.

**R 408.90**

**Source:** 2014 AACS.

**R 408.91**

**Source:** 1997 AACS.

**R 408.92**

**Source:** 1989 AACS.

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**R 408.94**  
Source: 1979 AC.

**R 408.95**  
Source: 1979 AC.

**DEPARTMENT OF CONSUMER AND INDUSTRY SERVICES**

**BUREAU OF SAFETY AND REGULATION**

**OCCUPATIONAL HEALTH STANDARDS COMMISSION**

**MINE SAFETY**

**R 408.121**  
Source: 1998-2000 AACS.

**R 408.122**  
Source: 1998-2000 AACS.

**DEPARTMENT OF CONSUMER AND INDUSTRY SERVICES**

**OCCUPATIONAL HEALTH STANDARDS COMMISSION**

**ABANDONED AND IDLE MINES**

**R 408.171**  
Source: 1998-2000 AACS.

**R 408.172**  
Source: 1998-2000 AACS.

**R 408.174**  
Source: 1998-2000 AACS.

**R 480.175**  
Source: 1998-2000 AACS.

**R 408.176**  
Source: 1998-2000 AACS.

**R 408.177**  
Source: 1998-2000 AACS.

**R 408.178**  
Source: 1998-2000 AACS.

**R 408.179**  
Source: 1998-2000 AACS.

**R 408.180**  
Source: 1998-2000 AACS.

**BUREAU OF SAFETY AND REGULATION**

**EMPLOYMENT OF MINORS**

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**R 408.201**  
Source: 1997 AACS.

**R 408.202**  
Source: 1997 AACS.

**R 408.203**  
Source: 1997 AACS.

**R 408.204**  
Source: 1997 AACS.

**R 408.205**  
Source: 1997 AACS.

**R 408.206**  
Source: 1997 AACS.

**DEPARTMENT OF CONSUMER AND INDUSTRY SERVICES**

**BUREAU OF SAFETY AND REGULATION**

**OCCUPATIONAL HEALTH STANDARDS COMMISSION**

**OXYGEN SUPPLY EQUIPMENT**

**R 408.491**  
Source: 1998-2000 AACS.

**R 408.492**  
Source: 1998-2000 AACS.

**DEPARTMENT OF CONSUMER AND INDUSTRY SERVICES**

**OCCUPATIONAL HEALTH STANDARDS COMMISSION**

**HEARINGS**

**R 408.501**  
Source: 1998-2000 AACS.

**R 408.502**  
Source: 1998-2000 AACS.

**R 408.503**  
Source: 1998-2000 AACS.

**R 408.504**  
Source: 1998-2000 AACS.

**R 408.505**  
Source: 1998-2000 AACS.

**R 408.506**  
Source: 1998-2000 AACS.

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**DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS**

**WAGE AND HOUR DIVISION**

**GENERAL RULES**

**PART 1. GENERAL PROVISIONS**

- R 408.701**  
Source: 2019 AACS.
- R 408.702**  
Source: 1998-2000 AACS.
- R 408.703**  
Source: 1998-2000 AACS.
- R 408.704**  
Source: 1998-2000 AACS.
- R 408.705**  
Source: 1998-2000 AACS.
- R 408.706**  
Source: 2019 AACS.
- R 408.711**  
Source: 2016 AACS.
- R 408.712**  
Source: 2016 AACS.
- R 408.713**  
Source: 2016 AACS.

**PART 2. OVERTIME COMPENSATION**

- R 408.721**  
Source: 1998-2000 AACS.
- R 408.722**  
Source: 1998-2000 AACS.
- R 408.723**  
Source: 1998-2000 AACS.
- R 408.724**  
Source: 1998-2000 AACS.
- R 408.725**  
Source: 1998-2000 AACS.
- R 408.726**  
Source: 1998-2000 AACS.
- R 408.727**



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**Source:** 1998-2000 AACS.

**R 408.728**

**Source:** 1998-2000 AACS.

**R 408.729**

**Source:** 1998-2000 AACS.

**R 408.730**

**Source:** 1998-2000 AACS.

**R 408.731**

**Source:** 1997 AACS.

**R 408.732**

**Source:** 1997 AACS.

**R 408.733**

**Source:** 1998-2000 AACS.

**R 408.734**

**Source:** 1998-2000 AACS.

**R 408.735**

**Source:** 1998-2000 AACS.

**WAGE DEVIATION**

**R 408.771**

**Source:** 1983 AACS.

**R 408.772**

**Source:** 2016 AACS.

**R 408.773**

**Source:** 1983 AACS.

**R 408.774**

**Source:** 1983 AACS.

**R 408.775**

**Source:** 1983 AACS.

**R 408.776**

**Source:** 1983 AACS.

**R 408.777**

**Source:** 2019 AACS.

**R 408.778**

**Source:** 2019 AACS.

**R 408.779**

**Source:** 2016 AACS.

**R 408.780**

**Source:** 1983 AACS.

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**R 408.781**  
Source: 1983 AACS.

**R 408.782**  
Source: 2016 AACS.

**R 408.783**  
Source: 2016 AACS.

**R 408.784**  
Source: 2016 AACS.

**R 408.785**  
Source: 2019 AACS.

**R 408.786**  
Source: 1983 AACS.

**R 408.787**  
Source: 1983 AACS.

**DIRECTOR'S OFFICE  
CARNIVAL AND AMUSEMENT RIDES**

**PART 1. GENERAL PROVISIONS**

**R 408.801**  
Source: 2014 AACS.

**R 408.802**  
Source: 2007 AACS.

**R 408.803**  
Source: 2014 AACS.

**R 408.805**  
Source: 1997 AACS.

**R 408.806**  
Source: 2014 AACS.

**R 408.807**  
Source: 1997 AACS.

**R 408.809**  
Source: 1997 AACS.

**R 408.811**  
Source: 1997 AACS.

**R 408.813**  
Source: 2014 AACS.

**R 408.814**  
Source: 2003 AACS.

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**R 408.815**  
Source: 1997 AACS.

**R 408.816**  
Source: 1983 AACS.

**R 408.817**  
Source: 1996 AACS.

**R 408.819**  
Source: 2014 AACS.

**PART 2. DESIGN, CONSTRUCTION, AND OPERATION**

**R 408.821**  
Source: 2014 AACS.

**R 408.822**  
Source: 1997 AACS.

**R 408.824**  
Source: 2014 AACS.

**R 408.825**  
Source: 2014 AACS.

**R 408.826**  
Source: 2014 AACS.

**R 408.827**  
Source: 2014 AACS.

**R 408.828**  
Source: 1983 AACS.

**R 408.829**  
Source: 1983 AACS.

**R 408.830**  
Source: 2014 AACS.

**R 408.831**  
Source: 1983 AACS.

**R 408.832**  
Source: 1983 AACS.

**R 408.833**  
Source: 2007 AACS.

**R 408.834**  
Source: 2003 AACS.

**R 408.835**  
Source: 1983 AACS.

**R 408.837**

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**Source:** 2003 AACS.

**R 408.838**

**Source:** 2003 AACS.

**R 408.839**

**Source:** 2014 AACS.

**R 408.839a**

**Source:** 2003 AACS.

**R 408.841**

**Source:** 2003 AACS.

**R 408.843**

**Source:** 2003 AACS.

**R 408.844**

**Source:** 2003 AACS.

**R 408.846**

**Source:** 1983 AACS.

**R 408.848**

**Source:** 2014 AACS.

**R 408.849**

**Source:** 2014 AACS.

**R 408.851**

**Source:** 2014 AACS.

**R 408.852**

**Source:** 2014 AACS.

**R 408.854**

**Source:** 1983 AACS.

**R 408.856**

**Source:** 2014 AACS.

**PART 3. PROCEDURES**

**R 408.871**

**Source:** 2014 AACS.

**R 408.872**

**Source:** 1983 AACS.

**R 408.873**

**Source:** 2014 AACS.

**R 408.874**

**Source:** 1983 AACS.

**R 408.876**

**Source:** 2003 AACS.

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**R 408.877**  
Source: 2014 AACS.

**R 408.881**  
Source: 2014 AACS.

**R 408.882**  
Source: 2014 AACS.

**R 408.883**  
Source: 2014 AACS.

**R 408.885**  
Source: 2014 AACS.

**R 408.886**  
Source: 2014 AACS.

**R 408.887**  
Source: 2014 AACS.

**R 408.891**  
Source: 2014 AACS.

**PART 4. PARTICIPATORY RIDES--GO-KARTS**

**R 408.891a**  
Source: 2014 AACS.

**R 408.893**  
Source: 2014 AACS.

**R 408.895**  
Source: 2014 AACS.

**R 408.897**  
Source: 2014 AACS.

**PART 4. PARTICIPATORY RIDES—GO-KARTS**

**R 408.891**  
Source: 2007 AACS.

**R 408.891a**  
Source: 1998-2000 AACS.

**R 408.893**  
Source: 1998-2000 AACS.

**R 408.895**  
Source: 1998-2000 AACS.

**R 408.897**  
Source: 1998-2000 AACS.

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**PART 5. SIGNS AND SAFETY WARNINGS**

**R 408.898**

Source: 2003 AACCS.

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**CONSTRUCTION SAFETY AND HEALTH STANDARD**

**R 408.3901**

Source: 2020 AACCS.

**R 408.3902**

Source: 2020 AACCS.

**R 408.3903**

Source: 2020 AACCS.

**R 408.3904**

Source: 2020 AACCS.

**R 408.3905**

Source: 2020 AACCS.

**R 408.3906**

Source: 2020 AACCS.

**R 408.3907**

Source: 2020 AACCS.

**R 408.3911**

Source: 2020 AACCS.

**DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS**

**DIRECTOR'S OFFICE**

**MICHIGAN BOILER RULES**

**PART 1. GENERAL PROVISIONS**

**R 408.4001 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4011**

Source: 1998-2000 AACCS.

**R 408.4012 Rescinded.**

History: 1998-2000 AACCS; 2002 AACCS; 2006 AACCS; 2009 AACCS; 2013 AACCS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4013**

Source: 1998-2000 AACCS.

**R 408.4015**

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**Source:** 1998-2000 AACS.

**R 408.4017**

**Source:** 1998-2000 AACS.

**R 408.4019**

**Source:** 1998-2000 AACS.

**R 408.4021**

**Source:** 1998-2000 AACS.

**R 408.4023**

**Source:** 1998-2000 AACS.

**R 408.4024 Rescinded.**

History: 1998-2000 AACS; 2002 AACS; 2006 AACS; 2009 AACS; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4025 Rescinded.**

History: 1979 AC; 1985 AACS; 1995 AACS; 1998-2000 AACS; 2002 AACS; 2006 AACS; 2009 AACS; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4026 Rescinded.**

History: 1995 AACS; 1998-2000 AACS; 2009 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4027 Rescinded.**

History: 1995 AACS; 1998-2000 AACS; 2002 AACS; 2006 AACS; 2009 AACS; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4028 Rescinded.**

History: 1995 AACS; 2006 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4029 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4031 Rescinded.**

History: 1979 AC; 1985 AACS; 1995 AACS; 1998-2000 AACS; 2001 AACS; 2002 AACS; 2006 AACS; 2009 AACS; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4032 Rescinded.**

History: 1995 AACS; 1998-2000 AACS; 2002 AACS; 2006 AACS; 2009 AACS; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4033 Rescinded.**

History: 1979 AC; 1981 AACS; 1995 AACS; 1998-2000 AACS; 2002 AACS; 2006 AACS; 2009 AACS; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4034 Rescinded.**

History: 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4035 Rescinded.**

History: 1979 AC; 1995 AACS; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4036 Rescinded.**

History: 1979 AC; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4038 Rescinded.**

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History: 1981 AACS; 1991 AACS; 1998-2000 AACS; 2001 AACS; 2002 AACS; 2007 AACS; 2009 AACS; 2010 AACS; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4039 Rescinded.**

History: 1979 AC; 1981 AACS; 1995 AACS; 1998-2000 AACS; 2006 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4045 Rescinded.**

History: 1979 AC; 2006 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4047 Rescinded.**

History: 1979 AC; 1998-2000 AACS; 2006 AACS; 2009 AACS; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4049 Rescinded.**

History: 1979 AC; 1981 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4051 Rescinded.**

History: 1979 AC; 1981 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4052**

Source: 2002 AACS.

**R 408.4053**

Source: 1997 AACS.

**R 408.4055 Rescinded.**

History: 1979 AC; 1998-2000; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4057 Rescinded.**

History: 1979 AC; 1981 AACS; 1985 AACS; 1995 AACS; 1998-2000 AACS; 2002 AACS; 2006 AACS; 2009 AACS; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4058 Rescinded.**

History: 1979 AC; 2002 AACS; 2006 AACS; 2009 AACS; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4059 Rescinded.**

History: 2002 AACS; 2006 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4065 Rescinded.**

History: 1979 AC; 2006 AACS; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4067 Rescinded.**

History: 1979 AC; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4069 Rescinded.**

History: 1979 AC; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4071 Rescinded.**

History: 1979 AC; 1995 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4073 Rescinded.**

History: 1979 AC; 1981 AACS; 2002 AACS; 2006 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4075 Rescinded.**



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History: 1979 AC; 1995 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4077**

Source: 2002 AACS.

**R 408.4079 Rescinded.**

History: 1979 AC; 1981 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4081 Rescinded.**

History: 1979 AC; 1995 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4087 Rescinded.**

History: 1979 AC; 1995 AACS; 2002 AACS; 2009 AACS; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4089 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4091 Rescinded.**

History: 1979 AC; 1981 AACS; 1995 AACS; 2002 AACS; 2006 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4093**

Source: 2002 AACS.

**R 408.4095**

Source: 1997 AACS.

**R 408.4096 Rescinded.**

History: 1998-2000 AACS; 2006 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4099 Rescinded.**

History: 1979 AC; 1995 AACS; 2002 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4101 Rescinded.**

History: 1979 AC; 2002 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4103 Rescinded.**

History: 1979 AC; 1995 AACS; 2002 AACS; 2006 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4105 Rescinded.**

History: 1979 AC; 1981 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4107 Rescinded.**

History: 1979 AC; 1981 AACS; 1995 AACS; 2002 AACS; 2006 AACS; 2007 AACS; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4109 Rescinded.**

History: 1979 AC; 1995 AACS; 1998-2000 AACS; 2002 AACS; 2009 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4111 Rescinded.**

History: 1979 AC; 2002 AACS; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4114 Rescinded.**

History: 1979 AC; 1985 AACS; 1995 AACS; 1998-2000 AACS; 2006 AACS; 2009 AACS; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

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**R 408.4115**

Source: 2002 AACS.

**R 408.4116**

Source: 2002 AACS.

**R 408.4117 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4119 Rescinded.**

History: 1979 AC; 1981 AACS; 1995 AACS; 2002 AACS; 2006 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4120 Rescinded.**

History: 2006 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4121 Rescinded.**

History: 1979 AC; 1985 AACS; 1995 AACS; 2002 AACS; 2006 AACS; 2009 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4122 Rescinded.**

History: 2002 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4123 Rescinded.**

History: 1979 AC; 1981 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4124 Rescinded.**

History: 2002 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4125 Rescinded.**

History: 1979 AC; 1981 AACS; 1995 AACS; 2002 AACS; 2006 AACS; 2007 AACS; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4127 Rescinded.**

History: 1979 AC; 1995 AACS; 1998-2000 AACS; 2006 AACS; 2009 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4129 Rescinded.**

History: 1979 AC; 1995 AACS; 2002 AACS; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4131 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4133 Rescinded.**

History: 1979 AC; 2002 AACS; 2006 AACS; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4139 Rescinded.**

History: 1979 AC; 1995 AACS; 2006 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4143 Rescinded.**

History: 1979 AC; 1981 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4149 Rescinded.**

History: 1979 AC; 1995 AACS; 2002 AACS; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4151 Rescinded.**

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History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4153 Rescinded.**

History: 1979 AC; 2002 AACS; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4155 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4157 Rescinded.**

History: 1979 AC; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4161 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4163 Rescinded.**

History: 1979 AC; 1995 AACS; 2002 AACS; 2006 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4165 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4167 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4169 Rescinded.**

History: 1979 AC; 1995 AACS; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4171 Rescinded.**

History: 1979 AC; 2009 AACS; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4172 Rescinded.**

History: 1979 AC; 1995 AACS; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4173**

**Source:** 2002 AACS.

**R 408.4174**

**Source:** 1997 AACS.

**R 408.4175 Rescinded.**

History: 1979 AC; 2002 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4177 Rescinded.**

History: 1979 AC; 1981 AACS; 2002 AACS; 2006 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4179 Rescinded.**

History: 1979 AC; 1995 AACS; 2002 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4182 Rescinded.**

History: 1979 AC; 1995 AACS; 2002 AACS; 2006 AACS; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4185 Rescinded.**

History: 1979 AC; 1995 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4186**

**Source:** 2009 AACS.

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**R 408.4187 Rescinded.**

History: 1979 AC; 1995 AACS; 2002 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4189 Rescinded.**

History: 1979 AC; 1998-2000 AACS; 2002 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4193 Rescinded.**

History: 1979 AC; 1995 AACS; 2002 AACS; 2009 AACS; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4195 Rescinded.**

History: 1979 AC; 1995 AACS; 1998-2000 AACS; 2009 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4197 Rescinded.**

History: 1979 AC; 2002 AACS; 2006 AACS; 2009 AACS; 2013 AACS; 2023 MR 8, Eff. May 3, 2023

**R 408.4201 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4202 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4203 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4205 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4206 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4207 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4208 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4210 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4212 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4214 Rescinded.**

History: 1979 AC; 1995 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4215 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4216 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4217 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4218 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

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**R 408.4219 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4220 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4222 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4223 Rescinded.**

History: 1979 AC; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4225 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4230 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4232 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4235 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4236 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4240 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4241 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4242 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4244 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4246 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4251 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4253 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4255 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4257 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4258 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

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**R 408.4259 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4260 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4263 Rescinded.**

History: 1954 ACS 49, Eff. Feb. 14, 1967; 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4265 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4267 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4268 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4269 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4270 Rescinded.**

History: 1979 AC; 1985 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4272 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4274 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4277 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4278 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4280 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4281 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4283 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4284 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4286 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4287 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4288 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

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**R 408.4290 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4291 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4292 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4293 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4294 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4296 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4298 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4301 Rescinded.**

History: 1979 AC; 1995 AACS; 2002 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4302 Rescinded.**

History: 1979 AC; 1995 AACS; 2002 AACS; 2006 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4303**

Source: 2006 AACS.

**R 408.4304**

Source: 2006 AACS.

**R 408.4306**

Source: 1997 AACS.

**R 408.4309**

Source: 1997 AACS.

**R 408.4312**

Source: 1997 AACS.

**R 408.4315**

Source: 1997 AACS.

**R 408.4318**

Source: 1997 AACS.

**R 408.4321**

Source: 1997 AACS.

**R 408.4324**

Source: 1997 AACS.

**R 408.4327**

Source: 1997 AACS.

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**R 408.4330**  
Source: 1997 AACCS.

**R 408.4333**  
Source: 1997 AACCS.

**R 408.4336**  
Source: 1997 AACCS.

**R 408.4339**  
Source: 1997 AACCS.

**R 408.4342**  
Source: 1997 AACCS.

**R 408.4345**  
Source: 1997 AACCS.

**R 408.4348**  
Source: 1997 AACCS.

**R 408.4351**  
Source: 1997 AACCS.

**R 408.4354**  
Source: 1997 AACCS.

**R 408.4357**  
Source: 1997 AACCS.

**R 408.4360**  
Source: 1997 AACCS.

**R 408.4363**  
Source: 1997 AACCS.

**R 408.4366**  
Source: 1997 AACCS.

**R 408.4369**  
Source: 1997 AACCS.

**R 408.4372**  
Source: 1997 AACCS.

**R 408.4375**  
Source: 1997 AACCS.

**R 408.4378**  
Source: 1997 AACCS.

**R 408.4381**  
Source: 1997 AACCS.

**R 408.4384**  
Source: 1997 AACCS.

**R 408.4387**  
Source: 1997 AACCS.



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**R 408.4390**  
Source: 1997 AACs.

**R 408.4393**  
Source: 1997 AACs.

**R 408.4396**  
Source: 1997 AACs.

**PART 4. INSPECTION OF FUSION WELDING**

**R 408.4401**  
Source: 1997 AACs.

**R 408.4402**  
Source: 1997 AACs.

**R 408.4405**  
Source: 1997 AACs.

**R 408.4407**  
Source: 1997 AACs.

**R 408.4409**  
Source: 1997 AACs.

**R 408.4410**  
Source: 1997 AACs.

**R 408.4412**  
Source: 1997 AACs.

**R 408.4414**  
Source: 1997 AACs.

**R 408.4416**  
Source: 1997 AACs.

**R 408.4418**  
Source: 1997 AACs.

**R 408.4420**  
Source: 1997 AACs.

**R 408.4422**  
Source: 1997 AACs.

**R 408.4424**  
Source: 1997 AACs.

**R 408.4426**  
Source: 1997 AACs.

**R 408.4428**  
Source: 1997 AACs.

**R 408.4430**  
Source: 1997 AACs.

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- R 408.4432**  
Source: 1997 AACs.
- R 408.4434**  
Source: 1997 AACs.
- R 408.4436**  
Source: 1997 AACs.
- R 408.4438**  
Source: 1997 AACs.
- R 408.4440**  
Source: 1997 AACs.
- R 408.4442**  
Source: 1997 AACs.
- R 408.4444**  
Source: 1997 AACs.
- R 408.4446**  
Source: 1997 AACs.
- R 408.4448**  
Source: 1997 AACs.
- R 408.4450**  
Source: 1997 AACs.
- R 408.4452**  
Source: 1997 AACs.
- R 408.4454**  
Source: 1997 AACs.
- R 408.4456**  
Source: 1997 AACs.
- R 408.4458**  
Source: 1997 AACs.
- R 408.4460**  
Source: 1997 AACs.
- R 408.4462**  
Source: 1997 AACs.
- R 408.4466**  
Source: 1997 AACs.
- R 408.4468**  
Source: 1997 AACs.
- R 408.4470**  
Source: 1997 AACs.
- R 408.4472**  
Source: 1997 AACs.

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- R 408.4474**  
Source: 1997 AACCS.
- R 408.4476**  
Source: 1997 AACCS.
- R 408.4478**  
Source: 1997 AACCS.
- R 408.4480**  
Source: 1997 AACCS.
- R 408.4482**  
Source: 1997 AACCS.
- R 408.4484**  
Source: 1997 AACCS.
- R 408.4486**  
Source: 1997 AACCS.
- R 408.4488**  
Source: 1997 AACCS.
- R 408.4489**  
Source: 1997 AACCS.
- R 408.4490**  
Source: 1997 AACCS.
- R 408.4491**  
Source: 1997 AACCS.
- R 408.4492**  
Source: 1997 AACCS.
- R 408.4493**  
Source: 1997 AACCS.
- R 408.4494**  
Source: 1997 AACCS.
- R 408.4495**  
Source: 1997 AACCS.
- R 408.4496**  
Source: 1997 AACCS.
- R 408.4497**  
Source: 1997 AACCS.
- R 408.4498**  
Source: 1997 AACCS.
- R 408.4499**  
Source: 1997 AACCS.

**PART 5. INSERVICE INSPECTION OF BOILERS**

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**R 408.4501 Rescinded.**

History: 1979 AC; 1995 AACS; 2002 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4502**

**Source:** 2001 AACS.

**R 408.4503 Rescinded.**

History: 1979 AC; 1995 AACS; 2006 AACS; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4505**

**Source:** 1998-2000 AACS.

**R 408.4507 Rescinded.**

History: 1979 AC; 1995 AACS; 1998-2000 AACS; 2002 AACS; 2006 AACS; 2009 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4510 Rescinded.**

History: 1979 AC; 2006 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4511 Rescinded.**

History: 1998-2000 AACS; 2006 AACS; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4512 Rescinded.**

History: 1998-2000 AACS; 2006 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4513**

**Source:** 1998-2000 AACS.

**R 408.4515 Rescinded.**

History: 1979 AC; 1995 AACS; 1998-2000 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4517**

**Source:** 1998-2000 AACS.

**R 408.4518**

**Source:** 2006 AACS.

**R 408.4520 Rescinded.**

History: 1979 AC; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4522 Rescinded.**

History: 1979 AC; 1995 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4524**

**Source:** 1998-2000 AACS.

**R 408.4526**

**Source:** 1998-2000 AACS.

**R 408.4529**

**Source:** 1998-2000 AACS.

**R 408.4531**

**Source:** 1998-2000 AACS.

**R 408.4534**

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**Source:** 1998-2000 AACS.

**R 408.4536**

**Source:** 1998-2000 AACS.

**R 408.4538**

**Source:** 1998-2000 AACS.

**R 408.4540**

**Source:** 1997 AACS.

**R 408.4542**

**Source:** 1997 AACS.

**R 408.4545**

**Source:** 1998-2000 AACS.

**R 408.4547**

**Source:** 1998-2000 AACS.

**R 408.4550**

**Source:** 1998-2000 AACS.

**R 408.4552**

**Source:** 1997 AACS.

**R 408.4554**

**Source:** 1998-2000 AACS.

**R 408.4556**

**Source:** 1997 AACS.

**R 408.4559**

**Source:** 1998-2000 AACS.

**R 408.4561**

**Source:** 1998-2000 AACS.

**R 408.4566 Rescinded.**

History: 1979 AC; 1995 AACS; 1998-2000 AACS; 2006 AACS; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4569**

**Source:** 1998-2000 AACS.

**R 408.4570**

**Source:** 2013 AACe.

**R 408.4572**

**Source:** 1998-2000 AACS.

**R 408.4575 Rescinded.**

History: 1979 AC; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4578**

**Source:** 1998-2000 AACS.

**R 408.4580**

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**Source:** 1998-2000 AACS.

**R 408.4581 Rescinded.**

History: 1979 AC; 2023 MR 8, Eff. May 3, 2023.

**R 408.4583**

**Source:** 1998-2000 AACS.

**R 408.4586**

**Source:** 1998-2000 AACS.

**R 408.4590**

**Source:** 1998-2000 AACS.

**PART 6. REPAIR OF BOILERS  
SCOPE OF RULES FOR REPAIR BY RIVETING**

**R 408.4601 Rescinded.**

History: 1979 AC; 1995 AACS; 2002 AACS; 2006 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4602**

**Source:** 2006 AACS.

**R 408.4603**

**Source:** 2006 AACS.

**R 408.4604**

**Source:** 2006 AACS.

**R 408.4605**

**Source:** 2006 AACS.

**R 408.4606**

**Source:** 2006 AACS.

**R 408.4607**

**Source:** 2006 AACS.

**R 408.4608**

**Source:** 2006 AACS.

**R 408.4609**

**Source:** 2006 AACS.

**R 408.4610**

**Source:** 2006 AACS.

**R 408.4611**

**Source:** 2006 AACS.

**R 408.4612**

**Source:** 2006 AACS.

**R 408.4613**

**Source:** 2006 AACS.

**R 408.4614**

**Source:** 2006 AACS.

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**R 408.4615**

Source: 2006 AACS.

**R 408.4616**

Source: 2006 AACS.

**R 408.4617**

Source: 2006 AACS.

**R 408.4618**

Source: 2006 AACS.

**R 408.4619**

Source: 2006 AACS.

**R 408.4620**

Source: 2006 AACS.

**R 408.4622**

Source: 2006 AACS.

**R 408.4623**

Source: 2006 AACS.

**R 408.4624**

Source: 2006 AACS.

**R 408.4625**

Source: 2006 AACS.

**R 408.4626 Rescinded.**

History: 1995 AACS; 1998-2000 AACS; 2006 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4627**

Source: 2006 AACS.

**R 408.4628**

Source: 2006 AACS.

**R 408.4627**

Source: 1998-2000 AACS.

**R 408.4628**

Source: 1995 AACS.

**R 408.4631**

Source: 2006 AACS.

**R 408.4633**

Source: 1998-2000 AACS.

**R 408.4635**

Source: 1997 AACS.

**R 408.4637**

Source: 2006 AACS.

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**R 408.4639**

Source: 1997 AACS.

**R 408.4641**

Source: 1997 AACS.

**R 408.4643**

Source: 1998-2000 AACS.

**R 408.4645**

Source: 1997 AACS.

**R 408.4647**

Source: 1998-2000 AACS.

**R 408.4649**

Source: 1998-2000 AACS.

**R 408.4650**

Source: 1998-2000 AACS.

**R 408.4651**

Source: 1998-2000 AACS.

**R 408.4653**

Source: 1997 AACS.

**R 408.4655**

Source: 1997 AACS.

**R 408.4657**

Source: 1997 AACS.

**R 408.4659**

Source: 1998-2000 AACS.

**R 408.4660**

Source: 2006 AACS.

**R 408.4661**

Source: 1998-2000 AACS.

**R 408.4662**

Source: 1997 AACS.

**R 408.4664**

Source: 1997 AACS.

**R 408.4666**

Source: 1997 AACS.

**R 408.4667**

Source: 2006 AACS.

**R 408.4668**

Source: 1998-2000 AACS.

**R 408.4670**

Source: 1998-2000 AACS.



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**R 408.4671**

Source: 1998-2000 AACS.

**R 408.4672**

Source: 1998-2000 AACS.

**R 408.4674**

Source: 1997 AACS.

**R 408.4675**

Source: 1998-2000 AACS.

**R 408.4676**

Source: 1998-2000 AACS.

**R 408.4677**

Source: 1997 AACS.

**R 408.4678**

Source: 1997 AACS.

**R 408.4679**

Source: 1997 AACS.

**R 408.4680**

Source: 1998-2000 AACS.

**R 408.4682**

Source: 1998-2000 AACS.

**R 408.4683**

Source: 1998-2000 AACS.

**R 408.4684**

Source: 2001 AACS.

**R 408.4686**

Source: 2001 AACS.

**R 408.4687**

Source: 2001 AACS.

**R 408.4688**

Source: 2001 AACS.

**R 408.4689**

Source: 2006 AACS.

**R 408.4690**

Source: 2001 AACS.

**R 408.4691**

Source: 2001 AACS.

**R 408.4692**

Source: 1997 AACS.

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**R 408.4693**

**Source:** 1998-2000 AACS.

**R 408.4694**

**Source:** 1998-2000 AACS.

**R 408.4695**

**Source:** 1998-2000 AACS.

**R 408.4696**

**Source:** 1997 AACS.

**R 408.4697**

**Source:** 1998-2000 AACS.

**PART 7. BOILER BLOWOFF SYSTEMS**

**R 408.4701 Rescinded.**

History: 1979 AC; 1995 AACS; 1998-2000 AACS; 2006 AACS; 2009 AACS; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4704**

**Source:** 2006 AACS.

**R 408.4707**

**Source:** 2006 AACS.

**R 408.4711 Rescinded.**

History: 1979 AC; 1995 AACS; 2002 AACS; 2006 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.4715**

**Source:** 1997 AACS.

**R 408.4719**

**Source:** 1997 AACS.

**R 408.4723**

**Source:** 1997 AACS.

**R 408.4727**

**Source:** 2006 AACS.

**R 408.4731**

**Source:** 2006 AACS.

**R 408.4735**

**Source:** 2006 AACS.

**R 408.4739**

**Source:** 2006 AACS.

**R 408.4743**

**Source:** 2006 AACS.

**R 408.4747**

**Source:** 2006 AACS.

**R 408.4750**

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**Source:** 2006 AACS.

**R 408.4756**

**Source:** 1997 AACS.

**R 408.4762**

**Source:** 1997 AACS.

**R 408.4768**

**Source:** 1997 AACS.

**R 408.4774**

**Source:** 1997 AACS.

**R 408.4780**

**Source:** 1997 AACS.

**R 408.4786**

**Source:** 1997 AACS.

**R 408.4792**

**Source:** 1997 AACS.

**R 408.4798**

**Source:** 1997 AACS.

**PART 8. CONTROLS**

**R 408.4801**

**Source:** 2006 AACS.

**FUEL CUTOFFS AND FEEDWATER REGULATORS**

**R 408.4851**

**Source:** 2006 AACS.

**R 408.4853**

**Source:** 2006 AACS.

**R 408.4856**

**Source:** 2006 AACS.

**R 408.4857**

**Source:** 1998-2000 AACS.

**R 408.4859**

**Source:** 1997 AACS.

**R 408.4861**

**Source:** 1997 AACS.

**R 408.4863**

**Source:** 1997 AACS.

**R 408.4865**

**Source:** 1997 AACS.

**R 408.4869**

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**Source:** 1997 AACS.

**R 408.4871**

**Source:** 1997 AACS.

**R 408.4873**

**Source:** 1997 AACS.

**R 408.4876**

**Source:** 1997 AACS.

**R 408.4879**

**Source:** 1997 AACS.

**R 408.4882**

**Source:** 1997 AACS.

**R 408.4885**

**Source:** 1997 AACS.

**R 408.4888**

**Source:** 1997 AACS.

**R 408.4890**

**Source:** 1997 AACS.

**R 408.4893**

**Source:** 2006 AACS.

**PART 9. LOW-PRESSURE SIDE OF REDUCING VALVES**

**R 408.4901**

**Source:** 1997 AACS.

**R 408.4910**

**Source:** 1997 AACS.

**R 408.4920**

**Source:** 1997 AACS.

**R 408.4930**

**Source:** 1997 AACS.

**R 408.4940**

**Source:** 1997 AACS.

**R 408.4950**

**Source:** 1997 AACS.

**R 408.4960**

**Source:** 1997 AACS.

**R 408.4970**

**Source:** 1997 AACS.

**R 408.4980**

**Source:** 1997 AACS.

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**R 408.4990**

Source: 1997 AACS.

**PART 15. HEARINGS**

**R 408.5501 Rescinded.**

History: 1979 AC; 1995 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.5502**

Source: 1997 AACS.

**R 408.5503**

Source: 1997 AACS.

**R 408.5504**

Source: 1997 AACS.

**R 408.5505**

Source: 1997 AACS.

**R 408.5506**

Source: 1997 AACS.

**R 408.5507**

Source: 1997 AACS.

**PART 16. MICHIGAN BOILER OPERATORS AND STATIONARY ENGINEERS  
QUALIFICATION AND VOLUNTARY REGISTRATION PROGRAM RULES**

**R 408.5601 Rescinded.**

History: 2010 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.5602 Rescinded.**

History: 2010 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.5603 Rescinded.**

History: 2010 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.5604 Rescinded.**

History: 2010 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.5605 Rescinded.**

History: 2010 AACS; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.5606 Rescinded.**

History: 2010 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.5607 Rescinded.**

History: 2010 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.5608 Rescinded.**

History: 2010 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.5609 Rescinded.**

History: 2010 AACS; 2023 MR 8, Eff. May 3, 2023.

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**BUREAU OF SAFETY AND REGULATION  
OCCUPATIONAL SAFETY STANDARDS COMMISSION  
GENERAL RULES**

**R 408.6171**  
**Source:** 1998-2000 AACS.

**BUREAU OF EMPLOYMENT STANDARDS  
YOUTH EMPLOYMENT STANDARDS  
PART 1. GENERAL PROVISIONS**

**R 408.6199**  
**Source:** 1988 AACS.

**PART 2. HAZARDOUS OCCUPATIONS IN GENERAL EMPLOYMENT**

**R 408.6201**  
**Source:** 1988 AACS.

**R 408.6202**  
**Source:** 2003 AACS.

**R 408.6203**  
**Source:** 2015 AACS.

**R 408.6204**  
**Source:** 2015 AACS.

**R 408.6205**  
**Source:** 1988 AACS.

**R 408.6206**  
**Source:** 2015 AACS.

**R 408.6207**  
**Source:** 1988 AACS.

**R 408.6208**  
**Source:** 2015 AACS.

**R 408.6209**  
**Source:** 2015 AACS.

**PART 3. DEVIATIONS FROM ESTABLISHED STANDARDS OR FROM LEGAL HOURS OF  
EMPLOYMENT FOR 16- AND 17-YEAR-OLD MINORS**

**R 408.6301**  
**Source:** 2015 AACS.

**R 408.6302**  
**Source:** 2014 AACS.

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**R 408.6303**

**Source:** 2006 AACCS.

**R 408.6304**

**Source:** 2003 AACCS.

**R 408.6305**

**Source:** 1988 AACCS.

**R 408.6306**

**Source:** 1988 AACCS.

**R 408.6307**

**Source:** 1988 AACCS.

**R 408.6308**

**Source:** 1988 AACCS.

**R 408.6309**

**Source:** 2006 AACCS.

**DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS**

**DIRECTOR'S OFFICE**

**ELEVATORS**

**CHAPTER 1. GENERAL PROVISIONS**

**R 408.7001**

**Source:** 2014 AACCS.

**R 408.7002 Definitions.**

Rule 2. (1) As used in these rules:

(a) "Act" means 1967 PA 227, MCL 408.801 to 408.824.

(b) "Belt manlift" means a power-driven endless belt that has steps and handholds and is used to transport persons in a vertical direction through successive floors or levels of a building or structure.

(c) "Department" means the department of licensing and regulatory affairs.

(d) "Electrical-powered, 1-man elevator" means an elevator that has a car platform area of not more than 5 square feet, a rated load of not more than 300 pounds, and a rated speed of not more than 100 feet per minute. It is for the exclusive use of certain designated operating and maintenance employees and is installed in any of the following structures:

(i) A grain or feed mill.

(ii) A chemical or alcohol distillery.

(iii) A cement storage tower.

(iv) A radio tower.

(v) A similar structure that is not accessible to the general public.

(e) "Examination" means a survey of the design and construction of elevators or elevator equipment by a dealer in elevators or elevator equipment or an approved insurance company.

(f) "Hand-powered, 1-man elevator" means an elevator that has a car platform area of not more than 5 square feet, has a rated load of not more than 300 pounds, and is operated from the car only by pulling on a stationary rope that is located in the hoistway and passing through or adjacent to the car platform. The elevator is for the exclusive use of certain designated operating and maintenance employees and is installed in a grain or feed mill or a similar structure that is not accessible to the general public.

(g) "Inspection" means the official determination by a general inspector of the condition of all parts of

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equipment on which the safe operation of an elevator depends.

(h) "Private residence elevator" means any elevating device installed in or at a private residence or installed in a building as a means of access to a private residence within such building, provided the elevator is installed so that it is not accessible to the general public or to other occupants in the building. The use is restricted to the owner and the owner's immediate family and nonpaying guests. All other elevating device installations must be classified as commercial.

(i) "Special elevating device" includes another lifting or lowering apparatus that is guided as provided in section 3 of the act, MCL 408.803.

(j) "Temporary inspection" means the inspection of a permanent elevator that is to be used on a temporary basis.

(k) "Maintenance" means the process of routine examination, lubrication, cleaning, and adjustment of parts components or subsystems, or both, to ensure performance pursuant to these rules and the American Society of Mechanical Engineers (ASME) A17.1.

(2) Terms defined in the act have the same meanings when used in these rules.

History: 2003 AACs; 2005 AACs; 2014 AACs; 2023 MR 6, Eff. June 27, 2023.

**R 408.7003 Applicability of national standards.**

Rule 3. The following standards are adopted by reference.

(a) The following standards are available from the American Society of Mechanical Engineers (ASME), 22 Law Drive, Box 2900, Fairfield, New Jersey 07007-2900, <https://www.asme.org>, at a cost as of the time of adoption of these rules, as stated in this subdivision:

(i) ASME A17.1- 2016 safety code for elevators and escalators, except for sections, 1.2.1(b), 1.2.1(c), 2.5.1.5.3, 2.8.3.3.2, 2.8.6, 2.11.1.3, 2.11.1.4, 2.11.7.2, 2.11.7.2.1, 2.11.7.2.2, 2.11.7.2.3, 2.11.7.2.4, 2.11.7.2.5, 2.12.7.2.1(c), 2.12.7.2.2, 2.14.2.2(f), 2.14.2.6, 2.14.5.9.2, 2.22.2, 2.27.3.1.6(c), 3.18.3.8.3, 3.19.5.2, 3.22.1.6, 5.3.1.1.1, 5.3.1.1.2, 5.3.1.2.1, 5.3.1.14.3, 5.4.10.1, 5.4.10.2, 5.11, 5.12, 5.12.1, 5.12.1.1, 5.12.1.2, 5.12.1.3, 5.12.1.4, 5.12.2, 5.12.3, 8.6.1.7.1, 8.6.4.19.12 (b), 8.6.4.20.1(b), 8.6.4.20.1(b)(1), 8.6.4.20.1(b)(2), 8.6.4.20.3(a)(2), 8.6.4.20.3 (2)(b), 8.6.4.20.3 (g), 8.6.4.20.4 (b), 8.6.4.20.4 (b)(1), 8.6.4.20.4 (b)(2), 8.6.4.20.10(b), 8.6.4.20.10(b)(1), 8.6.4.20.10(b)(2), 8.6.5.8, 8.6.7.11 to 8.6.7.11.3, 8.6.7.12, 8.6.7.12.1, 8.6.7.12.2, 8.6.11.5 to 8.6.11.5.6, 8.6.11.10 to 8.6.11.10.4, 8.7.2.14.5.2, 8.10.1.1.3, 8.10.1.2, 8.11.1.1, 8.11.1.1.1, 8.11.1.1.2, 8.11.5.14 to 8.11.5.16. Cost \$252.00.

(ii) ASME A17.2- 2017 guide for inspection of elevators, escalators, and moving walks. Cost \$195.00.

(iii) ASME A17.3-2017 safety code for existing elevators and escalators. Cost \$168.00.

(iv) ASME A17.6- 2017 standard for elevator suspension, compensation, and governor systems. Cost \$92.00.

(v) ASME A18.1- 2017 safety code standard for platform lifts and stairway chairlifts, except for sections 2.1.2 to 2.1.2.8, 2.1.3 to 2.1.3.10, 3.10.2 to 3.10.2.4, 10.1.1, 10.1.2 to 10.1.2.3, 10.1.3.3, 10.1.4, and 10.2.1. Cost \$98.00.

(vi) ASME A90.1-2009 safety standard for belt manlifts. Cost \$59.00.

(b) ANSI A10.4-2016, the American National Standards Institute (ANSI), safety requirements for personnel hoist and employee elevators for construction and demolition and operations, except for sections 24.1.2.1 and 26.4.8.1, is available from ANSI at 1430 Broadway, New York, New York, 10018, <https://www.ansi.org>. Cost \$110.00.

(c) The following standards are available from American Society for Testing and Materials, (ASTM), 100 Bar Harbor Drive, 2 Conshohocken, Pennsylvania 19428-2959, at a cost as of the time of adoption of these rules, as stated in this subdivision:

(i) ASTM D 2667-2008, standard test method for biodegradability of alkylbenzene sulfonates. Cost \$69.00.

(ii) ASTM E 648-2010, "standard test method for critical radiant flux of floor-covering systems using a radiant heat energy source". Cost \$69.00.

(iii) ASTM F 714-2012, "standard specification for polyethylene (PE) plastic pipe (SDR-PR) based on outside diameter". Cost \$69.00.

(d) The standards adopted in this subrule are also available for inspection at the Michigan Department of Licensing and Regulatory Affairs, Bureau of Construction Codes, 611 W. Ottawa St., 1<sup>st</sup> Floor Ottawa Building, Lansing, Michigan 48933. Direction to the organizations' website to order the book may be obtained from the bureau of construction codes. The cost of the individual codes is noted in this subrule.

(e) All references to NFPA 70 mean the current Michigan electrical code. The Michigan electrical code is available for inspection at the Michigan Department of Licensing and Regulatory Affairs, Bureau of Construction Codes 611 W. Ottawa St., 1<sup>st</sup> Floor Ottawa Building, Lansing, Michigan 48933, at a cost as of



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the time of adoption of these amendatory rules of \$89.50.

History: 2003 AACS; 2005 AACS; 2010 AACS; 2014 AACS; 2023 MR 6, Eff. June 27, 2023.

**R 408.7004 Registration of elevators.**

Rule 4. An elevator shall be registered by the owner or user stating the location, type, capacity, name of manufacturer, and purpose for which it is used. Regardless of changes in ownership, the current certificate holder is responsible for submitting this information and updating this information. The certificate holder shall submit this information to the department in writing.

History: 2003 AACS; 2023 MR 6, Eff. June 27, 2023.

**R 408.7005 Identification plates and tags.**

Rule 5. (1) The holder of a certificate of operation shall permanently attach to the elevator in an approved area an identification plate or an engraving in the car operating panel, showing the type, the rated load, and the state-assigned serial number of each elevator. The assignment of a serial number does not automatically make the unit safe for public operation. All units shall be inspected before use pursuant to R 408.7010.

(2) One serial number tag must be furnished and permanently attached to the elevator machine controller.

(3) Identification plates and tags are furnished by the department and remain the property of the department.

History: 2003 AACS; 2023 MR 6, Eff. June 27, 2023.

**R 408.7006 Accident reports.**

Rule 6. The holder of a certificate of operation shall notify the department within 48 hours of every accident involving personal injury or damage to the elevator in a manner and on a form prescribed by the department. The department may investigate any accidents involving personal injury or damage to the elevator.

History: 2003 AACS; 2023 MR 6, Eff. June 27, 2023.

**R 408.7007 Responsibility for elevator operation and maintenance.**

Rule 7. (1) Responsibility for the operation and maintenance of elevators is as follows:

(a) The person, firm, or corporation installing, repairing, relocating, or altering an elevator is responsible for its operation and maintenance until the certificate of operation is issued, except as provided for in R 408.7012, and is responsible for all tests of new, repaired, relocated, and altered equipment until the certificate of operation is issued.

(b) The holder of a certificate of operation or duly appointed agent is responsible for the safe operation and proper maintenance of the elevator.

(c) The holder of the certificate of operation is responsible for all periodic inspections and tests, securing the renewal of the certificate of operation, and the compliance with violation notices.

(d) The licensed contractor holding a temporary certificate of operation is responsible for the safe operation, maintenance, repair, replacement, testing, and fees of the elevator during the period that the temporary certificate is in force.

(2) Safety tests must be performed by elevator journeypersons who are licensed in this state.

History: 2003 AACS; 2023 MR 6, Eff. June 27, 2023.

**R 408.7008**

Source: 2003 AACS.

**R 408.7009**

Source: 2003 AACS.

**R 408.7010**

Source: 2003 AACS.

**R 408.7011**

Source: 2014 AACS.

**R 408.7012 Temporary use of permanent elevators during construction.**

Rule 12. (1) A licensed elevator contractor may request a temporary certificate of operation to permit the use of a passenger or freight elevator before its completion. The passenger or freight elevator must not be

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used until it has been approved by a general inspector, the required fee has been paid, and a temporary certificate of operation has been obtained. This certificate must be issued for a period not to exceed 90 calendar days. Renewals under this subrule may be granted at the discretion of the department as follows:

(a) Permanent elevators used temporarily during construction to move workers, authorized personnel, and materials must have maintenance performed every 30 calendar days by a licensed elevator journeyman. These elevators must be inspected by a general elevator inspector employed by the department every 90 calendar days.

(b) Periodic inspections may be conducted by a general inspector every 30 calendar days. The fees are cited in R 408.7019 and may be assessed at the discretion of the department based upon the frequencies in this rule.

(2) A licensed elevator contractor may also request an inspection and temporary certificate of operation to allow the use of a passenger or freight elevator by the public before its completion. This elevator must not be used until it is inspected by a general inspector; the required fee, listed in R 408.7019, is paid; and a temporary certificate of operation is issued by the department to the licensed elevator contractor. The certificate must be issued for a period not to exceed 90 calendar days. Renewals under this subrule may be granted at the discretion of the department as follows:

(a) Permanent elevators used temporarily by the public must have maintenance performed by a licensed elevator journeyman every 30 calendar days.

(b) Periodic inspections may be conducted by a general inspector every 30 calendar days and the appropriate fees assessed at the discretion of the department.

History: 2003 AACs; 2023 MR 6, Eff. June 27, 2023.

**R 408.7013**

Source: 2003 AACs.

**R 408.7014 Inspection reports and certificates of operation.**

Rule 14. (1) A general inspector shall provide a report to the department of each inspection stating the condition of the elevator within 2 business days of the inspection.

(2) A report indicating an elevator has been sealed out of service must be forwarded to the department within 48 hours of being sealed.

(3) The director shall issue a certificate of operation for a capacity not to exceed the capacity named in the inspection report.

History: 2003 AACs; 2023 MR 6, Eff. June 27, 2023.

**R 408.7015 Violation notices.**

Rule 15. (1) If upon inspection an elevator is determined to be in an unsafe condition, or if the owner or user has not complied with these rules, then the general inspector shall issue to the holder of the certificate of operation a violation notice stating corrections required and a time limit within which the owner or user must comply with the violation notice. The owner or user shall notify the department in writing as soon as he or she has complied with the corrections stated in the violation notice and full compliance is affected. Notification must be on forms furnished by the department.

(2) If in the judgment of the general inspector failure to make these corrections would endanger human life, then compliance with the violation notice may be required immediately.

(3) Noncompliance with the violation notice may subject the holder of the certificate of operation to the penalty provisions of the act.

History: 2003 AACs; 2023 MR 6, Eff. June 27, 2023.

**R 408.7016**

Source: 2003 AACs.

**R 408.7017**

Source: 2003 AACs.

**R 408.7018**

Source: 2003 AACs.

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**R 408.7019 Fees.**

Rule 19. (1) All fees are subject to a 2% to 3% increase per annum at the discretion of the department. All fee amounts are in effect as of the effective date of these rules and are approved for 1 calendar year. After this first calendar year, the department must issue and enforce an updated fee schedule each calendar year. Fees must be paid in accordance with the following schedule:

Commissions to inspect elevators	
Commission.....	\$50.00.
Commission renewal .....	\$50.00.

Examination for certificates of competency	
Certificate of competency examination (nonrefundable) .....	\$50.00.

Elevator contractors and journeyperson examination and licenses	
Elevator contractor's license and renewal (nonrefundable).....	\$100.00.
Elevator contractor's examination (nonrefundable) .....	\$100.00.
Elevator journeyperson license and renewal (nonrefundable).....	\$40.00.
Elevator journeyperson examination (nonrefundable).....	\$100.00.

Installation permits fees	
Application fee all devices (nontransferable and nonrefundable) .....	\$100.00.
Base permit fee for the following devices: .....	\$300.00.
Passenger elevator	
Freight elevator	
Inclined elevator	
Limited-use/limited application elevator	
Private residence elevator	
Private residence inclined elevator	
Special purpose personnel elevator	
Dumbwaiter	
Material lift	
Power sidewalk elevator	
Rooftop elevator	
Belt manlift	
Special elevating device	
Personnel hoist	
For these installations, an additional amount of \$50.00 is charged for each hoistway opening or for each floor traveled without a hoistway opening, or both.	
Base permit fee: escalators and moving walks .....	\$360.00.
Base permit fee: private residence platform lift and private residency stairway chairlift.....	\$250.00.
Base permit fee: platform lift and stairway chairlift .....	\$100.00.

Alteration, replacement, and dormant elevator permit fees	
Application fee: all devices, excluding emergency permits, nontransferable and nonrefundable. ....	\$100.00.
Alteration personnel hoist .....	\$150.00.
For the specified alteration fees, an additional amount is charged for each additional alteration and or personnel hoist tower rise at \$75.00.	
Dormant elevator .....	\$100.00.
For alterations, excluding personnel hoist, and dormant elevators, an additional amount of \$25.00 is charged for each hoistway opening or for each floor traveled without a hoistway opening, or both.	
Emergency permit fee, maximum 2 items and not applicable for installations. \$500.00.	

Certificate of operation

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Biennial and annual certificate of operation.....\$60.00.  
Temporary certificate of operation .....\$250.00.

**Inspection by general inspector**

Biennial inspection for devices complying with R 408.7011(b).....\$125.00.

Annual and biennial inspection for all other devices.....\$175.00.

The items listed under "Inspection by general inspector" also have an additional amount of \$25.00 that will be charged for each hoistway opening or for each floor traveled without a hoistway opening, or both.

Temporary certificate of operation inspection.....\$200.00.

The temporary certificate of operation inspection has an additional amount of \$35.00 that will be charged for each hoistway opening or for each floor traveled without a hoistway opening, or both.

**Reinspection or violation notice follow-up for devices complying with R**

408.7011(b).....\$125.00.

Reinspection or violation notice follow-up for all other devices.....\$175.00.

(2) A final inspection fee is included in the installation and alteration permit fee. If a scheduled final inspection is canceled without 24 hours notice to the department, or if the elevator is not complete in the judgment of the general elevator inspector, then an additional fee must be charged to the elevator contractor as follows:

(a) \$450.00 for private residence elevator, dumbwaiter, platform lift, or stairway chairlift.

(b) \$750.00 for all other devices.

(3) A written request for a refund on a permit must be made within 1 year from the application date. An issued permit becomes invalid unless the work on the site authorized by the permit is commenced within 180 days after issuance, or if the work authorized on the site by the permit is suspended or abandoned for a period of 180 days after work is commenced. A 1-time 180-day permit extension must automatically be granted when a building permit for the same project remains valid.

(4) The department may provide, upon written request, special services that are not otherwise covered in the fee structure. The charge for this service \$150.00 per hour including travel time, any overnight accommodations, or special traveling needs, such as flights, if required. Fees that are required pursuant to the provisions of the act must be paid to the department. Checks or money orders must be made payable to the "State of Michigan."

History: 2003 AACCS; 2005 AACCS; 2008 AACCS; 2014 AACCS; 2023 MR 6, Eff. June 27, 2023.

**R 408.7020 Licensed elevator contractor and elevator contracting company.**

Rule 20. (1) If an elevator contracting company's ability to apply for permits is based on the qualification of employing an individual who works full-time and is licensed in this state as an elevator contractor, the termination or separation of employment of the licensed elevator contractor must result in the immediate suspension of the elevator contracting company's ability to obtain new permits. An elevator contracting company's ability to request permits remains suspended until another licensed elevator contractor is working full time for the elevator contracting company. Upon separation from the elevator contracting company, the licensed elevator contractor and the elevator contracting company shall each immediately notify the department in writing when the termination or separation of the employment occurs. The notification to the department of a new licensed elevator contractor working for an elevator contracting company must be submitted in writing by the licensed elevator contractor and the elevator contracting company within 5 business days of hiring. Failure to notify the department of separation or hiring may result in a \$50.00 fine to be paid by either or both parties found not to have notified the department.

(2) A person serving as the licensed elevator contractor of an elevator contracting company may not concurrently serve as a licensed elevator contractor for another elevator contracting company. A licensed elevator contractor must be employed on a full-time basis by the elevator contracting company for whom the elevator contractor requests permits.

(3) The elevator contracting company and the licensed elevator contractor are jointly and separately responsible for exercising the supervision and control of the elevator operations necessary to secure full compliance with the act, the rules promulgated under the act, and all other laws and rules related to elevating

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devices.

History: 2003 AACS; 2014 AACS; 2023 MR 6, Eff. June 27, 2023.

**R 408.7021**

Source: 2014 AACS.

**R 408.7022**

Source: 2003 AACS.

**R 408.7023 Appeals to the board.**

Rule 23. (1) Any person, firm, or corporation aggrieved by any decision, ruling, or order of the director or of the department may appeal 1 time. The appeal must be made in writing within 15 calendar days from date of mailing of the decision, ruling, or order to the board, for a hearing before the board pursuant to section 8(1)(d) of the act, MCL 408.808. An appeal must specify the reasons and the relief sought and be submitted to the director for presentation to the board. All submissions must include but not limited to make, model, and drawings detailing top, side, front and orthographic views of equipment including detailed documentation specific to affected systems, parts, assemblies and devices as well as any connected equipment subject to the discretion of the department and board.

(2) A \$250.00 nonrefundable fee must be made to the department at the time the appeal is filed. Checks, money orders, e-checks, cashier's checks, or credit card charges must be made payable to the "State of Michigan."

(3) The board shall set a time for hearing of the appeal and provide written notice to the appellant at least 10 days before the date set for hearing.

(4) A request for an adjournment must be filed in writing at least 5 days before the date set for hearing. The board or the director may, for good cause, grant an adjournment.

(5) If the appellant fails to appear at the time set for hearing, the board may proceed with the hearing and decide the case in the absence of the appellant. The board may affirm, modify, or set aside the ruling of the department and shall notify the director and the appellant in writing of its decision.

History: 2003 AACS; 2014 AACS; 2023 MR 6, Eff. June 27, 2023.

**R 408.7023a Variance requests.**

Rule 23a. (1) A person, firm, or corporation upon application in specific cases, may request a variation of the requirements of the rules when it is clearly evident that exceptions or variations are necessary to prevent undue hardship or when existing conditions prevent compliance with the requirements of the act and these rules. The request must be on a form prescribed by the department. A person, firm, or corporation shall specify on the form the reasons for the variance and the relief sought. The form must be submitted to the department for review.

(2) A \$100.00 nonrefundable fee must be paid to the department at the time the variance request is filed. Checks, money orders, e-checks, cashier's checks, or credit card charges must be made payable to the "State of Michigan".

(3) The department may submit the variance request to the board for its action. The department shall set a time for reviewing a request submitted to the board and provide written notice to the appellant at least 10 days before the date set for the review.

(4) A request for an adjournment must be filed in writing by the appellant at least 5 days before the date set for the review. The department or the board may, for good cause, grant an adjournment.

(5) If the appellant fails to appear at the time set for the variance request, the action may continue and the board may decide the request in the absence of the appellant. The request may be approved, denied, modified, or set aside. The department shall notify the appellant in writing of the decision.

History: 2014 AACS; 2023 MR 6, Eff. June 27, 2023.

**R 408.7023b Product acknowledgement.**

Rule 23b. (1) All elevating devices, equipment, systems, subsystems, components, and functions must be reviewed for compliance with the current elevator requirements and approved by the department before use in this state. An initial \$100.00 nonrefundable application fee must be made to the department at the time of application.

(2) All product acknowledgement requests must be on a form prescribed by the department and accompanied

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by a compliance document that reflects compliance with the corresponding requirements and supporting documents, including, but not limited to, make, model, and wiring diagram; factor of safety calculations; certifications; drawings detailing top, side, front, and orthographic views of equipment, including detailed documentation specific to affected systems, parts, assemblies and devices; and any other information the department finds necessary for the specific review.

(3) A letter on the manufacturer's letterhead, signed by an engineer who is employed by the manufacturer, must accompany the documentation. The letter must state that when installed per manufacturer specifications, the unit will comply with the applicable standards or codes, or both, that are adopted by reference in R 408.7003. Equipment not covered by codes and standards in accordance with R 408.7003 must not be installed until approved in accordance with this rule.

(4) A rate of \$100.00 per hour may be charged for special services of a product review. The total charges are determined on an hourly basis for the review upon completion. An acknowledgement may not be granted until full payment of these services has been received.

History: 2014 AACS; 2023 MR 6, Eff. June 27, 2023.

**R 408.7024 Applicability of rules and manual.**

Rule 24. Elevators that were installed before the effective date of this code edition must comply with this state's elevator laws and rules in effect at the time of installation. The alteration of elevators installed before the effective date of this code must comply with the state's elevator laws and rules in effect at the time of alteration. All other approved existing features or components of the elevator must comply with these rules and be maintained as described in the ASME safety code for existing elevators and escalators ASME A-17.3, which is adopted by reference in R 408.7003.

History: 2003 AACS; 2005 AACS; 2010 AACS; 2014 AACS; 2023 MR 6, Eff. June 27, 2023.

**R 408.7025 Maintenance of power elevators; frequency; exceptions.**

Rule 25. (1) A power elevator, except a private residence elevator, private residence inclined elevator, private residence platform lift, or private residence stairway chairlift, must be maintained at least once every 90 days by an elevator journey person who is licensed in this state, except for the following devices, which must be maintained at least once every 180 days:

(a) Dumbwaiters.

(b) One-person elevators, electric and hand-powered.

(c) Platform lifts and stairway chairlifts in buildings other than private residences.

(d) Private residences inclined elevators installed under the requirements of the act for use by multiple residences.

(2) An ongoing written record of all maintenance, repairs, replacements, inspection, callbacks, and testing must be kept in the machine room or on-site if a machine room does not exist.

History: 2003 AACS; 2014 AACS; 2023 MR 6, Eff. June 27, 2023.

**CHAPTER 2. ALL ELEVATORS**

**R 408.7026**

Source: 2014 AACS.

**R 408.7027**

Source: 2003 AACS.

**R 408.7028**

Source: 2003 AACS.

**R 408.7029 Dormant elevators.**

Rule 29. (1) An elevator, escalator, or moving walk that is inactive for 1 year must be classified as dormant and placed out of service in compliance with section 8.11.1.4(b) of the ASME A17.1 code.

(2) A permit must be obtained and the elevator must not be placed into service until it has been inspected and tested by a general inspector, except as provided in section 15 of the act, MCL 408.815.

(3) A platform lift or stairway chairlift that is inactive for 1 year must be classified as dormant and placed out of service as follows:



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- (a) The device must be lowered and any suspension means removed.
- (b) The power feed lines must be disconnected from the machine disconnect switch ensuring all circuit parts or conductors are deenergized. The platform lift or stairway chairlift must comply with section 10.1.6 of the ASME A18.1 code, as adopted by reference in R 408.7003.
- (c) All landing entrances must be secured in a closed position from inside the runway or hoistway.
- (d) Folding type devices must be secured against movement.
- (4) Before a dormant elevating device may be placed in service, an alteration permit must be applied for and approved by the department. The dormant elevating device must be inspected by the department and conform to these rules and the applicable section of the standard.

History: 2003 AACS; 2014 AACS; 2023 MR 6, Eff. June 27, 2023.

**R 408.7030 Elevator and escalator monitoring.**

Rule 30. All elevators and escalators may be monitored from a remote location. Monitoring must consist of passing information from the elevator control to a remote location for the collection of information. A device may not have the capability to adjust, alter, change, or reset any switch, parameter, or system of the elevator control from any location except the corresponding car, hoistway, machine room, lobby panel, or fire command center. The device must not be capable of bypassing or resetting any safety or electrical protective device. The monitoring means may be used to initiate car and hall landing calls or to secure floors from access. Information collected must be made available to the department upon request. A system related to the operation of an elevator or escalator that interfaces and communicates with the device and any other device must also comply with this rule. Remote connections found to be in violation of the above requirements must be removed and prohibited from future use.

History: 2003 AACS; 2014 AACS; 2023 MR 6, Eff. June 27, 2023.

**R 408.7031**

Source: 2003 AACS.

**CHAPTER 3. ASME A17.1 MODIFICATIONS**

**R 408.7031a Automated equipment utilizing elevator.**

Rule 31a. (1) Not more than 1 elevator in a bank may be occupied by an automated device at any 1 time. If a single elevator bank is selected due to normal power supply loss, automated devices may not utilize that car. General public passenger cars may not be used to transport automated devices.

(2) A maintenance program for devices must be instituted by the building owner and be available to the requestor upon request.

(3) Devices that utilize multiple carts must be tested annually with all possible variations of carts. Records must be kept onsite and be available to the requestor upon request.

(4) All circuitry and controllers must be kept out of elevator machine rooms and control spaces.

(5) Proper signage must be posted at each elevator connected to the automated devices. Signs must include both of the following language:

(a) Do not enter or use elevator if automated carts are entering, exiting, or on the car.

(b) Service elevator interfaced with automated carts, "Stand clear!"

(6) Any interfacing must comply with R 408.7030.

History: 2014 AACS; 2023 MR 6, Eff. June 27, 2023.

**R 408.7031b Guards between adjacent pits.**

Rule 31b. Section 2.2.3 of the ASME A17.1 code is amended to read as follows:

2.2.3.1 Guards must be provided between adjacent pits. The guard must be of noncombustible material. The guard, if of openwork material, must reject a ball 25 mm (1 inch) in diameter. The guard must be supported such that when subjected to a force of 450 N (100 lbf) applied over an area of 100 mm by 100 mm (4 inches by 4 inches) at any location, the deflection must not reduce the clearance between the guard and the adjacent pit below 25 mm (1 inch). Guards must extend not less than 2000 mm (79 inches) above the level of the higher pit floor. Where a ladder is installed adjacent to a guard, the guard must extend not less than 2000 mm (79 inches) above the top rung or rungs used as handgrips. A single horizontal structural element at the top of a pit ladder, used to stabilize the vertical side rails, is not considered a rung or handgrip.

2.2.3.2 Where access to pits of elevators in a multiple hoistway is by means of a separate pit access door (see

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2.2.4.5) and not by a pit access ladder, adjacent pits must:

(a) Be guarded as required by 2.2.3.1.

(b) The guards may be omitted if the clearance between the bottom of the car or counterweight, including any equipment attached thereto, while resting on a fully compressed buffer and the bottom of the pit is not less than 2,130 mm (84 inches)

History: 2023 MR 6, Eff. June 27, 2023.

**R 408.7032**

Source: 2014 AACS.

**R 408.7033**

Source: 2003 AACS.

**R 408.7033a Sumps and sump pumps.**

Rule 33a. Section 2.2.2.6 of ASME A17.1 is amended to read as follows: Sumps and sump pumps in pits, where provided, must be covered. Covers must be secured and level with the pit floor and be either a recessed grate type or solid. If solid, it must have means to permit water flow to comply with section 2.2.2.5 of ASME 17.1.

History: 2023 MR 6, Eff. June 27, 2023.

**R 408.7034 Enclosure of machine rooms and machinery spaces.**

Rule 34. Section 2.7.1 of the ASME A17.1 code is amended to read as follows:

2.7.1. Machines, control equipment, sheaves, and other machinery may not be exposed to the weather. Machine room, control room, and machinery-space enclosures must conform to section 2.7.1.1 or 2.7.1.2, and also conform to 2.7.1.3 of the ASME A17.1 code, as applicable.

Machine rooms and control rooms must be located at a hoistway landing associated with the equipment within the room. Elevator machine and control rooms may be located overhead, adjacent to, underneath the hoistway, or at a remote location. The entrance to the machine room or control room may be not more than 25 feet, clear unobstructed walking pathway from the elevator hoistway door. The distance from the machine room door to the hoistway door may be over 25 feet when the machine room is located directly above the hoistway in a conventional layout. Pit and hoistway access doors may not be a direct access between a hoistway enclosure and machine room or control room.

Elevators installed without a machine room or control room must locate the required disconnecting means outside of the hoistway in a separate dedicated control space that is readily accessible and adjacent to the control space that contains the control.

The disconnecting means must be in a single dedicated space or dedicated room, intended with or without full body entry, at a distance not to exceed 25 feet from the landing that contains the elevator control, inspection, or test panel. The disconnecting means must be secured so that only elevator journeyman and qualified personnel may gain access. If the controller is within an entrance assembly, signage must be placed at or near the frame with the specific location of the disconnecting means.

Access to machine rooms, control rooms, machine spaces, or control spaces may not be through restrooms, lavatories, locker rooms, or associated vestibules. Where enclosed ceilings are required or provided, they must be of a solid type with no access panels. Drop type ceilings are not permitted. Machine rooms, control rooms, machinery spaces, and control spaces may not be used as a pass through or for access to other areas. Building access panels or doors are prohibited in these areas.

History: 2003 AACS; 2010 AACS; 2014 AACS; 2023 MR 6, Eff. June 27, 2023.

**R 408.7034a Location of equipment.**

Rule 34a. Section 2.7.6.3.2 of the ASME A 17.1 code is amended to read as follows:

2.7.6.3.2 The motor controller must be located in a machinery space within the hoistway, a machine room, or control room. A motor controller may not be located outside the specified rooms or spaces. Regardless of location, illumination of 19 fc, meaning foot candles, must be provided where controller work is to be performed.

History: 2010 AACS; 2023 MR 6, Eff. June 27, 2023.

**R 408.7035**



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**Source:** 2014 AACCS.

**R 408.7036**

**Source:** 2014 AACCS.

**R 408.7037**

**Source:** 2014 AACCS.

**R 408.7037a Illumination of cars and lighting fixtures.**

Rule 37a. Section 2.14.7.1.4 of ASME A17.1 is amended to read as follows:

2.14.7.1.4 Each elevator must be provided with at least 2 electric light fixtures and a ground fault circuit interrupter duplex receptacle on the car top. The 2 light fixtures combined must provide an illumination level of not less than 10 fc at any point on the car top. The light fixtures must be permanent and be of the fixed or portable type and be equipped with guards.

History: 2005 AACCS; 2023 MR 6, Eff. June 27, 2023.

**R 408.7038**

**Source:** 2003 AACCS.

**R 408.7039**

**Source:** 2005 AACCS.

**R 408.7040**

**Source:** 2014 AACCS.

**R 408.7040a Phase I emergency recall operation.**

Rule 40a. Section 2.27.3.1.5 of the ASME A17.1 code is amended to read as follows:

All “FIRE RECALL” switches must be provided with an illuminated visual signal. The visual signal must be 1 of the symbols shown in Fig.2.27.3.1.6(h) to indicate when Phase I Emergency Recall Operation is in effect.

History: 2023 MR 6, Eff. June 27, 2023.

**R 408.7041 Machinery spaces, machine rooms, control spaces, and control rooms.**

Rule 41. Sections 3.7 and 3.7.1 of the ASME A17.1 code is amended to read as follows:

3.7. A machinery space outside the hoistway containing a hydraulic machine and an elevator controller must be a machine room. The hydraulic machine must be located in the hoistway or outside the hoistway in an elevator machine room. Hydraulic machines being installed in the line of movement of an elevator car or where an affected person is required to work in the line of movement of an elevator car must be prohibited. The elevator controller must be accessible only from a machine room, control room, or hoistway.

3.7.1. Hydraulic machines, control equipment, sheaves, and other machinery may not be exposed to the weather. Machine room, control room, and machinery-space enclosures must conform to the requirements of sections 2.7.1 to 2.7.7 and 2.7.9 of the ASME A17.1 code and the following:

Machine rooms and control rooms must be located at a hoistway landing associated with the equipment within the room. Elevator machine and control rooms may be located overhead, adjacent to, underneath the hoistway, or at a remote location. The entrance to the machine room or control room must be not more than 25 feet, clear unobstructed walking pathway from the elevator hoistway door. The distance from the machine room door to the hoistway door may be over 25 feet when the machine room is located directly above the hoistway in a conventional layout. Pit and hoistway access doors may not be for direct access between a hoistway enclosure and machine room or control room. Regardless of location, illumination of 19 fc, meaning foot candles, must be provided where controller and machinery work is to be performed.

Elevators installed without a machine room or control room must locate the required disconnecting means outside of the hoistway in a separate dedicated control space, readily accessible and adjacent to the control space that contains the control.

The disconnecting means must be in a single dedicated space or dedicated room, intended with or without full body entry, at a distance not to exceed 25 feet from the landing that contains the elevator control, inspection, or test panel. The disconnecting means must be secured so that only elevator journeyman and

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qualified personnel may gain access. If the controller is within an entrance assembly, signage must be placed in plain view, at or near the controller, and state the location of the disconnecting means.

Access to machine rooms, control rooms, machine spaces, or control spaces may not be through restrooms, lavatories, locker rooms, or associated vestibules. Where enclosed ceilings are required or provided, they must be of a solid type with no access panels. Drop type ceilings are not permitted. Machine rooms, control rooms, machinery spaces, and control spaces may not be used as a pass through or for access to other areas. Building access panels or doors are prohibited in these areas.

History: 2003 AACS; 2010 AACS; 2014 AACS; 2023 MR 6, Eff. June 27, 2023.

**R 408.7041a. Fire extinguishers.**

Rule 41a. Section 8.6.1.6.5 of ASME A17.1 is amended to read as follows: In jurisdictions not enforcing the National Building Code of Canada, Class “ABC” fire extinguishers must be provided in elevator machine rooms, control rooms, and control spaces outside the hoistway intended for full bodily entry, and walk-in machinery spaces and control rooms for escalators and moving walks; and they must be located convenient to the access door.

For machine-room-less (MRL) installations, Class “ABC” fire extinguishers must be conspicuously located where they are readily accessible outside of the elevator hoistway within 21 feet (6.4m) of the centerline of each elevator entrance associated with the controller. In the event of side or rear elevator entrance assemblies a Class “ABC” fire extinguisher must be conspicuously located in accordance with this rule.

History: 2023 MR 6, Eff. June 27, 2023.

**R 408.7042**

Source: 2003 AACS.

**R 408.7043**

Source: 2010 AACS.

**R 408.7043a**

Source: 2010 AACS.

**R 408.7044**

Source: 2014 AACS.

**R 408.7045 Shutoff valves; gauge snaps; underground piping; tags.**

Rule 45. Section 3.19.4.1 of the ASME A17.1 code is amended to read as follows:

3.19.4.1 A shutoff valve must be provided on a new or altered hydraulic elevator and be installed in the pressure piping within the elevator machine room. If the hoistway is remotely located from the machine room, then a shutoff valve must also be provided in the elevator pit.

History: 2003 AACS; 2010 AACS; 2023 MR 6, Eff. June 27, 2023.

**R 408.7046 Pressure gauge fittings.**

Rule 46. Section 3.19.4.5 of the ASME A17.1 code is amended to read as follows:

3.19.4.5 A new hydraulic machine must be provided with the necessary permanent pressure gauge snap-on fittings or permanent gauges, with a shut off valve to allow pressure readings at each pump for checking operating pressures. The gauge or fitting must be located on the jack side of the check valve or immediately adjacent to the hydraulic control valve.

History: 2003 AACS; 2010 AACS; 2023 MR 6, Eff. June 27, 2023.

**R 408.7047**

Source: 2003 AACS.

**R 408.7047a**

Source: 2010 AACS.

**R 408.7047b**

Source: 2014 AACS.

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**R 408.7048**

**Source:** 2010 AACCS.

**R 408.7048a. Rupture or overspeed valve.**

Rule 48a. Section 5.3.2.2.2 of the ASME A17.1 code is amended to read as follows:

A pressure switch must be provided to remove power from the pump motor and the control valve unless there is positive pressure at the control valve.

A rupture or overspeed valve must be provided on all roped hydraulic jacks, either cable or chain, to stop the flow of fluid and arrest the descent of the car in the event of line or pipe rupture.

History: 2023 MR 6, Eff. June 27, 2023.

**R 408.7049**

**Source:** 2003 AACCS.

**R 408.7050**

**Source:** 2014 AACCS.

**R 408.7051**

**Source:** 2014 AACCS.

**R 408.7052**

**Source:** 2014 AACCS.

**R 408.7053**

**Source:** 2010 AACCS.

**R 408.7054 Skirt deflector devices.**

Rule 54. Section 6.1.3.3.10 of the ASME A17.1 code is amended to read as follows:

6.1.3.3.10 Deflector devices are permitted. Where provided, deflector devices must extend from skirt panels parallel to the escalator path of travel. Means to secure these deflector devices may be on the exposed surface of the skirt. All fasteners must be of steel with machine screw threads. Any exposed fastener heads shall be of the tamper-resistant type and flush to within 1 mm, or 0.04 inch.

(1) Rigid elements must comply with the following conditions:

(a) Horizontal protrusions extending above the step must be 18 mm, or 0.75 inch maximum. Corners or changes in profile must be rounded or beveled.

The exposed surfaces of such elements must be smooth and permanently treated with a low-friction material.

(b) On the incline, the area of any protrusion must lie entirely offset outward from a line beginning on the vertical portion of the skirt panel measured 25 mm, or 1 inch-vertically above the step nose line. The lower surface must be beveled not less than 10 degrees upward and the upper surface must be beveled not less than 15 degrees downward in compliance with Figure 6.1.3.3.10 of the ASME A17.1 code.

(c) At the upper and lower landing, any protrusion must lie entirely above a line beginning on the vertical portion of the skirt panel 50 mm, or 2 inches, above the step nose line. The lower surface must be beveled not less than 10 degrees upward and the upper surface must be beveled not less than 15 degrees downward. Any rigid elements at the landings must smoothly blend into the rigid elements along the incline in accordance with the radius of curvature of the transition zone.

(d) If attached to the skirt, rigid elements must withstand a force of 900 N (200 lbf) perpendicular to the line of attachment of the element without detachment or permanent deformation. The force shall be applied to an area of 645 mm<sup>2</sup> (1 inch<sup>2</sup>).

(2) Flexible elements must comply with the following conditions:

(a) The horizontal protrusion extending from the skirt surface above the step must be 50 mm, or 2 inches, maximum.

(b) Must be capable of deflecting to an angle of 10 degrees or greater above the horizontal protrusion.

(c) Noncontinuous flexible elements are allowed to deflect to allow a maximum of 9.5 mm, or 0.375 inch interference with any point on the step surface.

(d) Continuous flexible elements may not deflect such that they can contact the steps.

History: 2003 AACCS; 2005 AACCS; 2023 MR 6, Eff. June 27, 2023.

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**R 408.7054a Rescinded.**

History: 2005 AACS; 2010 AACS; 2023 MR 6, Eff. June 27, 2023.

**R 408.7054b**

Source: 2010 AACS.

**R 408.7055**

Source: 2014 AACS.

**R 408.7055a**

Source: 2014 AACS.

**R 408.7056**

Source: 2014 AACS.

**R 408.7057 Applicability of alteration requirements.**

Rule 57. Section 8.7.1.1 of the ASME A17.1 code is amended to read as follows:

8.7.1.1 (1) If an alteration is performed to the elevator or any of its subsystems, regardless of any other requirements of section 8.7 of the ASME A17.1 code, then the alteration, at a minimum, must conform to both of the following requirements:

(a) This state's elevator laws and rules at the time of installation.

(b) This state's elevator laws and rules for the alteration at the time of any alteration.

(2) A permit must be obtained and the elevator may not be placed into service until it has been inspected and tested in the presence of a general inspector, except as provided in section 15 of the act, MCL 408.815.

History: 2003 AACS; 2023 MR 6, Eff. June 27, 2023.

**R 408.7057a Bottom car clearances.**

Rule 57a. Section 2.15.9.2(c) of ASME A17.1 is amended to read as follows:

2.15.9.2(c). Where the installation is the result of replacement or alteration utilizing an existing hoistway and pit, the toe guard may be reduced in length utilizing an existing hoistway and pit, provided the car speed does not exceed 150 feet per minute. The toe guard may be reduced in length proportionate to the maximum length the pit depth will allow complying with section 2.4.1.5. At no time may the toe guard be shorter than the leveling or truck zone plus 75mm, or 3 inches.

History: 2010 AACS; 2023 MR 6, Eff. June 27, 2023.

**R 408.7058**

Source: 2014 AACS.

**R 408.7058a Escalator electrical protective devices.**

Rule 58a. Section 6.1.6.3 of the ASME A17.1 code is amended to read as follows:

6.1.6.3. Electrical protective devices must be provided pursuant to 6.1.6.3 through 6.1.6.3.16 and be the manually resetting type. Automatic resetting of a safety device within these codes is prohibited.

History: 2010 AACS; 2023 MR 6, Eff. June 27, 2023.

**R 408.7058b Moving walk electrical protective devices.**

Rule 58b. Section 6.2.6.3 of the ASME A17.1 code is amended to read as follows:

6.2.6.3. Electrical protective devices must be provided pursuant to 6.2.6.3.1 through 6.2.6.3.12 and be the manually resetting type. Automatic resetting of a safety device within these codes is prohibited.

History: 2010 AACS; 2023 MR 6, Eff. June 27, 2023.

**R 408.7058c Escalator handrail speed-monitoring device.**

Rule 58c. Requirement 6.1.6.4 of the ASME A17.1 code is amended to read as follows:

A handrail speed monitoring device must be provided that will cause the activation of the alarm required by 6.1.6.3.1(b) without any intentional delay, whenever the speed of either handrail deviates from the step speed by 15% or more. The device must also cause electric power to be removed from the driving-machine motor and brake when the speed deviation of 15% or more is continuous within a 2 s to 6 s range. The device must

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be of the manual reset type. Automatic resetting of a safety device within these codes is prohibited.

History: 2023 MR 6, Eff. June 27, 2023.

**R 408.7058d Moving walk handrail speed-monitoring device.**

Rule 58d. Requirement 6.2.6.4 of the ASME A17.1 code is amended to read as follows:

A Handrail Speed Monitoring Device must be provided that will cause the activation of the alarm required by 6.2.6.3.1(b) without any intentional delay whenever the speed of either handrail deviates from the treadway speed by 15% or more. The device must also cause electric power to be removed from the driving-machine motor and brake when the speed deviation of 15% or more is continuous within a 2 s to 6 s range. The device must be of the manual reset type. Automatic resetting of a safety device within these codes is prohibited.

History: 2023 MR 6, Eff. June 27, 2023.

**R 408.7059**

Source: 2014 AACS.

**R 408.7059a Periodic test tags.**

Rule 59a. Section 8.10.1.1.1 of the ASME A17.1 code is amended to read as follows:

8.10.1.1.1. The acceptance inspection must be made by an inspector employed by the authority having jurisdiction. All parts of the installation must be inspected for conformity with the requirements of this state's elevator laws, these rules, and section 8.10 of the ASME A17.1 and ASME 17.2. An approved paper tag must be installed in the machine room or machine space for all periodic tests.

History: 2010 AACS; 2014 AACS; 2023 MR 6, Eff. June 27, 2023.

**R 408.7060 Three-year inspection and test requirements.**

Rule 60. Section 8.6.5.15.3 is added to the ASME A17.1 code to read as follows:

8.6.5.15.3. (1) Cylinders must be tested at intervals of not more than 36 months.

(2) Three-year inspection and test requirements are as follow:

(a) The relief valve setting must comply with section 3.19.4.2 of the ASME A17.1 code. The relief valve must be resealed if the relief valve setting is altered or if the seal is broken.

(b) Test the relief valve setting by first inching the empty car upward to engage the plunger stop ring or to engage other suitable blocking provided and then apply pressure from the pump to check the setting. A copy of test forms must be maintained on site in the machine room or space available to elevator personnel pursuant to section

8.6.1.4.1 of ASME A17.1. Procedures for set test are as follows:

(i) Put rated load in the car and locate it at any convenient level.

(ii) Open the disconnect switch and locate the elevation of the platform with respect to a convenient reference.

(iii) For cylinders that are not completely exposed, after not less than 2 hours, note the position of the platform with respect to the chosen reference. For cylinders that are completely exposed, after not less than 30 minutes, note the position of the platform with respect to the chosen reference. A change in the car position during a cylinder test that cannot be accounted for by visible oil leakage or temperature change of the oil indicates a failure of some type requiring further inspections, tests, or repairs. An accessible written record of all oil levels and all oil added must be maintained in the machine room.

History: 2003 AACS; 2005 AACS; 2014 AACS; 2023 MR 6, Eff. June 27, 2023.

**R 408.7060a**

Source: 2014 AACS.

**CHAPTER 4. ASME A18.1 MODIFICATIONS**

**R 408.7061**

Source: 2003 AACS.

**R 408.7062 Runway entrance.**

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Rule 62. Section 2.1.1.2 of the ASME A18.1 code is amended to read as follows:

2.1.1.2 The runway entrance must be guarded at the upper landing by a door of unperforated construction not wider than the platform plus 1 inch, or 25.4 millimeters. The door must be self-closing or power operated and guard the entire opening to a height equal to or higher than the height of the platform enclosure. The openings created in the runway by these doors must provide a minimum vertical clearance of 6 feet 8 inches. The doors must guard the entire area of the openings except for space necessary for operation. Space necessary for operation must reject a ball 12 mm, or 0.5 inches, in diameter. The lift side of the landing doors and sill must present a smooth surface located not closer than 10 mm, or 0.375 inches, or more than 20 mm, or 0.75 inches, from the platform floor.

History: 2003 AACS; 2010 AACS; 2023 MR 6, Eff. June 27, 2023.

**R 408.7062a**

Source: 2010 AACS.

**R 408.7063**

Source: 2014 AACS.

**R 408.7064**

Source: 2014 AACS.

**R 408.7065**

Source: 2014 AACS.

**R 408.7066**

Source: 2010 AACS.

**R 408.7066a**

Source: 2014 AACS.

**R 408.7067**

Source: 2014 AACS.

**R 408.7068**

Source: 2003 AACS.

**CHAPTER 5. ASME A90-1 MODIFICATIONS**

**R 408.7069**

Source: 2014 AACS.

**CHAPTER 6. ANSI A10.4 MODIFICATIONS**

**R 408.7070**

Source: 2010 AACS.

**R 408.7071 Location.**

Rule 71. Section 5.4.8 of the ANSI A10.4 standard is amended to read as follows:

5.4.8. (1) A personnel hoist must be installed not less than 10 feet from any other lifting or lowering apparatus except other personnel hoists.

(2) A hoistway may not be located either partially or wholly over sidewalks or passageways.

(3) If tower cranes or any other lifting or lowering apparatus are installed such that the boom, load, or trolley may go over or into the 10-foot restricted area, then the personnel hoist must be unoccupied anytime the boom, or trolley passes over the restricted area. The evacuation of the personnel hoist must be the responsibility of the crane operator and the general contractor.

History: 2003 AACS; 2010 AACS; 2014 AACS; 2023 MR 6, Eff. June 27, 2023.

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**R 408.7072**

Source: 2003 AACS.

**R 408.7073**

Source: 2010 AACS.

**R 408.7074**

Source: 2003 AACS.

**R 408.7075**

Source: 2003 AACS.

**R 408.7076**

Source: 2003 AACS.

**R 408.7077**

Source: 2003 AACS.

**R 408.7078**

Source: 2003 AACS.

**R 408.7079 Rated load safety test.**

Rule 79. Section 26.4.8 of the ANSI A10.4 standard is amended to read as follows:

26.4.8 A rated load safety test, as required by section 26.2.1.1 of the ANSI A10.4 standard, must be performed by a licensed elevator contractor in the presence of a general elevator inspector every 90 days. Periodic inspections may be conducted every 30 days and the appropriate fees assessed at the discretion of the department.

History: 2003 AACS; 2023 MR 6, Eff. June 27, 2023.

**R 408.7080**

Source: 2010 AACS.

**R 408.7081**

Source: 2010 AACS.

**R 408.7081a Operators.**

Rule 81a. Section 30.3 of the ANSI A10.4 standard is amended to read as follows:

30.3 The user shall ensure that the operators are knowledgeable and capable of performing the duties outlined in the operating manual and are capable of recording such activity in their log. A list certifying the training of any operator must be kept in the on-site documentation. Only authorized personnel listed in that document may operate the lift.

History: 2010 AACS; 2023 MR 6, Eff. June 27, 2023.

**CHAPTER 7. SEWER LIFT STATION PERSONNEL ELEVATORS**

**R 408.7082**

Source: 2003 AACS.

**R 408.7083**

Source: 2003 AACS.

**R 408.7084**

Source: 2003 AACS.

**R 408.7085**

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**R 408.7086**

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**Source:** 2003 AACS.

**R 408.7087**

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**R 408.7088**

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**Source:** 2010 AACS.

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**R 408.7103**

**Source:** 2003 AACS.

**R 408.8101**

**Source:** 2003 AACS.

**R 408.8103**

**Source:** 2003 AACS.

**R 408.8108**

**Source:** 2003 AACS.



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**R 408.8111**  
Source: 2003 AACS.

**R 408.8121**  
Source: 2003 AACS.

**R 408.8122**  
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**R 408.8123**  
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**R 408.8124**  
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**Source:** 2003 AACS.

**R 408.8153**

**Source:** 2003 AACS.

**R 408.8161**

**Source:** 2003 AACS.

**R 408.8171**

**Source:** 2003 AACS.

**R 408.8191**

**Source:** 1979 AC.

**R 408.8201**

**Source:** 2003 AACS.

**R 408.8202**

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**R 408.8205**

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**R 408.8221**  
Source: 2003 AACS.

**R 408.8222**  
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**R 408.8223**  
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**R 408.8224**  
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**Source:** 2003 AACS.

**R 408.8243**

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**R 408.8262**  
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**R 408.8263**  
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**R 408.8264**  
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**R 408.8265**  
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**Source:** 2003 AACS.

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**R 408.8302**

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**R 408.8321**  
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**R 408.8325**  
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**R 408.8403**  
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**Source:** 2003 AACS.

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**R 408.8441**  
Source: 2003 AACCS.

**R 408.8451**  
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**Annual Administrative Code Supplement  
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**Source:** 2003 AACS.

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**R 408.8518**  
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**R 408.8519a**  
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**R 408.8520**  
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**R408.8536a**  
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**R 408.8537a**  
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**R 408.8540a**  
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**R 408.8540b**  
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**Source:** 2003 AACS.

**R 408.8541**

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**R 408.8571**  
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**Annual Administrative Code Supplement  
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**Source:** 2003 AACS.

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**R 408.8632a**

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**R 408.8634**

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**R 408.8636a**

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**R 408.8638**

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**R 408.8639**  
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**R 408.8639b**  
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**R 408.8641**  
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**R 408.8642**  
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**R 408.8661**  
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**R 408.8664**  
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**R 408.8671**  
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**R 408.8681**  
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**R 408.8691**  
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**R 408.8691a**  
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**R 408.8691b**  
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**R 408.8692**  
Source: 2003 AACS.

**R 408.8693**

**Annual Administrative Code Supplement  
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**Source:** 2003 AACS.

**R 408.8694**

**Source:** 2003 AACS.

**R 408.8695**

**Source:** 2003 AACS.

**PAYMENT OF WAGES AND FRINGE BENEFITS**

**R 408.9001**

**Source:** 1998-2000 AACS.

**R 408.9002**

**Source:** 2014 AACS.

**R 408.9003**

**Source:** 1998-2000 AACS.

**R 408.9004**

**Source:** 1998-2000 AACS.

**R 408.9005**

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**R 408.9006**

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**R 408.9007**

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**R 408.9008**

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**Source:** 1998-2000 AACS.

**R 408.9011**

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**R 408.9012**

**Source:** 2014 AACS.

**R 408.9013**

**Source:** 1998-2000 AACS.

**R 408.9014**

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**R 408.9015**

**Source:** 1998-2000 AACS.

**R 408.9016**

**Source:** 1998-2000 AACS.



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**R 408.9017**

Source: 1998-2000 AACCS.

**R 408.9018**

Source: 1982 AACCS.

**R 408.9019**

Source: 2014 AACCS.

**R 408.9020**

Source: 1998-2000 AACCS.

**R 408.9021**

Source: 1998-2000 AACCS.

**R 408.9022**

Source: 1998-2000 AACCS.

**R 408.9023**

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**R 408.9024**

Source: 1998-2000 AACCS.

**R 408.9025**

Source: 1998-2000 AACCS.

**R 408.9026**

Source: 2014 AACCS.

**R 408.9027**

Source: 2014 AACCS.

**R 408.9028**

Source: 2014 AACCS.

**R 408.9029**

Source: 1998-2000 AACCS.

**R 408.9030**

Source: 1998-2000 AACCS.

**R 408.9031**

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**R 408.9032**

Source: 1998-2000 AACCS.

**R 408.9033**

Source: 2006 AACCS.

**R 408.9034**

Source: 2014 AACCS.

**R 408.9035**

Source: 2006 AACCS.

**R 408.9036**

**Annual Administrative Code Supplement  
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**Source:** 2014 AACS.

**DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS**

**DIRECTOR'S OFFICE**

**GENERAL INDUSTRY SAFETY AND HEALTH STANDARD**

**PART 1. GENERAL PROVISIONS**

**R 408.10001**

**Source:** 2018 AACS.

**R 408.10002**

**Source:** 2018 AACS.

**R 408.10003**

**Source:** 2018 AACS.

**R 408.10004**

**Source:** 2018 AACS.

**R 408.10005**

**Source:** 2018 AACS.

**R 408.10011**

**Source:** 2018 AACS.

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**R 408.10016**

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**R 408.10017**

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**R 408.10021**

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**R 408.10022**

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**R 408.10026**

**Source:** 2018 AACS.

**R 408.10031**

**Source:** 2018 AACS.

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**R 408.10032**  
Source: 1997 AACS.

**R 408.10033**  
Source: 1993 AACS.

**R 408.10034**  
Source: 2018 AACS.

**R 408.10036**  
Source: 1983 AACS.

**R 408.10037**  
Source: 1993 AACS.

**R 408.10051**  
Source: 1979 AC.

**R 408.10098**  
Source: 2018 AACS.

**PART 1A. ABRASIVE WHEELS**

**R 408.10101**  
Source: 1979 AC.

**R 408.10102**  
Source: 1990 AACS.

**R 408.10103**  
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**R 408.10104**  
Source: 1979 AC.

**R 408.10105**  
Source: 1990 AACS.

**R 408.10111**  
Source: 1979 AC.

**R 408.10113**  
Source: 1979 AC.

**R 408.10114**  
Source: 1979 AC.

**R 408.10115**  
Source: 1990 AACS.

**GUARDING PROVISIONS**

**R 408.10121**  
Source: 1990 AACS.

**R 408.10122**  
Source: 2009 AACS.

**R 408.10123**

**Annual Administrative Code Supplement  
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**Source:** 2009 AACS.

**R 408.10124**

**Source:** 1990 AACS.

**R 408.10125**

**Source:** 1979 AC.

**R 408.10126**

**Source:** 2009 AACS.

**R 408.10127**

**Source:** 2009 AACS.

**R 408.10128**

**Source:** 2009 AACS.

**R 408.10129**

**Source:** 2009 AACS.

**FLANGE PROVISIONS**

**R 408.10141**

**Source:** 1979 AC.

**R 408.10142**

**Source:** 2009 AACS.

**R 408.10143**

**Source:** 2009 AACS.

**MOUNTING PROVISIONS**

**R 408.10151**

**Source:** 1979 AC.

**R 408.10152**

**Source:** 1979 AC.

**R 408.10153**

**Source:** 1979 AC.

**R 408.10154**

**Source:** 1979 AC.

**R 408.10155**

**Source:** 2009 AACS.

**R 408.10156**

**Source:** 1979 AC.

**R 408.10158**

**Source:** 1979 AC.

**R 408.10159**

**Source:** 1979 AC.

**SPEED PROVISIONS**

**Annual Administrative Code Supplement  
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**R 408.10171**  
**Source:** 1997 AACS.

**R 408.10172**  
**Source:** 1997 AACS.

**R 408.10173**  
**Source:** 1990 AACS.

**R 408.10174**  
**Source:** 1990 AACS.

**R 408.10175**  
**Source:** 1990 AACS.

**SPECIAL SPEEDS**

**R 408.10177**  
**Source:** 1990 AACS.

**OPERATING PROVISIONS**

**R 408.10181**  
**Source:** 1990 AACS.

**R 408.10182**  
**Source:** 1979 AC.

**R 408.10183**  
**Source:** 1979 AC.

**R 408.10184**  
**Source:** 1979 AC.

**R 408.10185**  
**Source:** 1979 AC.

**R 408.10186**  
**Source:** 1990 AACS.

**R 408.10187**  
**Source:** 1990 AACS.

**R 408.10198**  
**Source:** 1990 AACS.

**R 408.10199**  
**Source:** 1990 AACS.

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**GENERAL INDUSTRY SAFETY AND HEALTH STANDARD**

**R 408.10201**  
**Source:** 2018 AACS.

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- R 408.10202**  
Source: 2018 AACCS.
- R 408.10203**  
Source: 2018 AACCS.
- R 408.10204**  
Source: 2018 AACCS.
- R 408.10205**  
Source: 2018 AACCS.
- R 408.10206**  
Source: 2018 AACCS.
- R 408.10207**  
Source: 2018 AACCS.
- R 408.10208**  
Source: 2018 AACCS.
- R 408.10211**  
Source: 2018 AACCS.
- R 408.10213**  
Source: 2018 AACCS.
- R 408.10215**  
Source: 2018 AACCS.
- R 408.10217**  
Source: 2018 AACCS.
- R 408.10219**  
Source: 2018 AACCS.
- R 408.10220**  
Source: 2018 AACCS.
- R 408.10221**  
Source: 2018 AACCS.
- R 408.10223**  
Source: 2018 AACCS.
- R 408.10227**  
Source: 2018 AACCS.
- R 408.10228**  
Source: 2018 AACCS.
- R 408.10230**  
Source: 2018 AACCS.
- R 408.10231**  
Source: 2018 AACCS.
- R 408.10232**

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Source: 2018 AACS.

**R 408.10233**

Source: 2018 AACS.

**R 408.10235**

Source: 2018 AACS.

**R 408.10236**

Source: 2018 AACS.

**R 408.10237**

Source: 2018 AACS.

**R 408.10239**

Source: 2018 AACS.

**R 408.10240**

Source: 2018 AACS.

**R 408. 10241**

Source: 2018 AACS.

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**PART 3. FIXED LADDERS**

**R 408.10301**

Source: 2018 AACS.

**R 408.10305**

Source: 2018 AACS.

**R 408.10306**

Source: 2018 AACS.

**R 408.10307**

Source: 2018 AACS.

**R 408.10308**

Source: 2018 AACS.

**R 408.10310**

Source: 2018 AACS.

**R 408.10311**

Source: 2018 AACS.

**R 408.10321**

Source: 2018 AACS.

**R 408.10323**

Source: 2018 AACS.

**R 408.10324**

Source: 2018 AACS.

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- R 408.10325**  
Source: 2018 AACS.
- R 408.10326**  
Source: 2018 AACS.
- R 408.10328**  
Source: 2018 AACS.
- R 408.10331**  
Source: 2018 AACS.
- R 408.10333**  
Source: 2018 AACS.
- R 408.10335**  
Source: 2018 AACS.
- R 408.10341**  
Source: 2018 AACS.
- R 408.10342**  
Source: 2018 AACS.
- R 408.10345**  
Source: 2018 AACS.
- R 408.10351**  
Source: 2018 AACS.
- R 408.10352**  
Source: 2018 AACS.
- R 408.10353**  
Source: 2018 AACS.
- R 408.10354**  
Source: 2018 AACS.
- R 408.10355**  
Source: 2018 AACS.
- R 408.10357**  
Source: 2018 AACS.
- R 408.10361**  
Source: 2018 AACS.
- R 408.10365**  
Source: 2018 AACS.
- R 408.10371**  
Source: 2018 AACS.
- R 408.10372**  
Source: 2018 AACS.

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**GENERAL INDUSTRY SAFETY STANDARDS**

**PART 4. PORTABLE LADDERS**

**R 408.10401**  
Source: 2018 AACS.

**R 408.10403**  
Source: 2018 AACS.

**R 408.10404**  
Source: 2018 AACS.

**R 408.10406**  
Source: 2018 AACS.

**R 408.10407**  
Source: 2018 AACS.

**R 408.10408**  
Source: 2018 AACS.

**R 408.10411**  
Source: 1972 AC.

**R 408.10413**  
Source: 2013 AACS.

**R 408.10421**  
Source: 2018 AACS.

**R 408.10422**  
Source: 2018 AACS.

**R 408.10423**  
Source: 1972 AC.

**R 408.10424**  
Source: 1972 AC.

**R 408.10426**  
Source: 1981 AACS.

**R 408.10427**  
Source: 2018 AACS.

**R 408.10428**  
Source: 2018 AACS.

**R 408.10431**  
Source: 2018 AACS.

**R 408.10432**  
Source: 2018 AACS.

**R 408.10433**

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Source: 2018 AACS.

**R 408.10441**

Source: 2018 AACS.

**R 408.10442**

Source: 2018 AACS.

**R 408.10443**

Source: 2018 AACS.

**R 408.10445**

Source: 2018 AACS.

**R 408.10446**

Source: 2018 AACS.

**R 408.10447**

Source: 2018 AACS.

**R 408.10451**

Source: 2018 AACS.

**R 408.10452**

Source: 2018 AACS.

**R 408.10454**

Source: 2018 AACS.

**R 408.10456**

Source: 2018 AACS.

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**GENERAL INDUSTRY SAFETY AND HEALTH STANDARD**

**PART 5. POWERED PLATFORMS FOR BUILDING MAINTENANCE**

**R 408.10501**

Source: 2018 AACS.

**R 408.10502**

Source: 2018 AACS.

**R 408.10503**

Source: 2018 AACS.

**R 408.10504**

Source: 2018 AACS.

**R 408.10505**

Source: 2018 AACS.

**R 408.10506**

Source: 2018 AACS.

**R 408.10507**

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**Source:** 2018 AACS.  
**R 408.10508**  
**Source:** 2018 AACS.

**R 408.10509**  
**Source:** 2018 AACS.

**R 408.10511**  
**Source:** 2018 AACS.

**R 408.10512**  
**Source:** 2018 AACS.

**R 408.10513**  
**Source:** 2018 AACS.

**R 408.10518**  
**Source:** 2018 AACS.

**R 408.10521**  
**Source:** 2018 AACS.

**R 408.10522**  
**Source:** 2018 AACS.

**R 408.10523**  
**Source:** 2018 AACS.

**R 408.10524**  
**Source:** 2018 AACS.

**R 408.10525**  
**Source:** 2018 AACS.

**R 408.10526**  
**Source:** 2018 AACS.

**R 408.10527**  
**Source:** 2018 AACS.

**R 408.10528**  
**Source:** 2018 AACS.

**R 408.10529**  
**Source:** 2018 AACS.

**R 408.10530**  
**Source:** 2018 AACS.

**R 408.10531**  
**Source:** 2018 AACS.

**R 408.10532**  
**Source:** 2018 AACS.

**R 408.10533**  
**Source:** 2018 AACS.

**R 408.10534**

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**Source:** 2018 AACs.

**R 408.10535**

**Source:** 2018 AACs.

**R 408.10541**

**Source:** 2018 AACs.

**R 408.10542**

**Source:** 2018 AACs.

**R 408.10543**

**Source:** 2018 AACs.

**R 408.10544**

**Source:** 2018 AACs.

**R 408.10545**

**Source:** 2018 AACs.

**R 408.10546**

**Source:** 2018 AACs.

**R 408.10547**

**Source:** 2016 AACs.

**R 408.10548**

**Source:** 2018 AACs.

**R 408.10549**

**Source:** 2018 AACs.

**R 408.10550**

**Source:** 2018 AACs.

**R 408.10561**

**Source:** 2016 AACs.

**R 408.10562**

**Source:** 1992 AACs.

**R 408.10563**

**Source:** 1992 AACs.

**R 408.10564**

**Source:** 2016 AACs.

**R 408.10565**

**Source:** 2018 AACs.

**R 408.10566**

**Source:** 1992 AACs.

**R 408.10567**

**Source:** 2016 AACs.

**R 408.10568**

**Source:** 2018 AACs.

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**R 408.10568a**  
Source: 2016 AACS.

**R 408.10568b**  
Source: 2016 AACS.

**R 408.10568c**  
Source: 2016 AACS.

**R 408.10568e**  
Source: 2016 AACS.

**R 408.10568f**  
Source: 2016 AACS.

**R 408.10568g**  
Source: 2016 AACS.

**R 408.10569**  
Source: 2016 AACS.

**R 408.10570**  
Source: 2013 AACS.

**R 408.10571**  
Source: 1992 AACS.

**R 408.10572**  
Source: 2016 AACS.

**R 408.10573**  
Source: 2018 AACS.

**R 408.10574**  
Source: 1992 AACS.

**R 408.10575**  
Source: 2016 AACS.

**R 408.10575a**  
Source: 2018 AACS.

**R 408.10575b**  
Source: 2018 AACS.

**R 408.10575c**  
Source: 2018 AACS.

**R 408.10575d**  
Source: 2016 AACS.

**R 408.10575e**  
Source: 2018 AACS.

**R 408.10575f**  
Source: 2016 AACS.

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**R 408.10575g**  
Source: 2016 AACS.

**R 408.10575h**  
Source: 2016 AACS.

**R 408.10576**  
Source: 2016 AACS.

**R 408.10577**  
Source: 2016 AACS.

**R 408.10578**  
Source: 2016 AACS.

**R 408.10579**  
Source: 2016 AACS.

**R 408.10580**  
Source: 2016 AACS.

**R 408.10581**  
Source: 1992 AACS.

**R 408.10582**  
Source: 2018 AACS.

**R 408.10583**  
Source: 2016 AACS.

**R 408.10584**  
Source: 2016 AACS.

**R 408.10585**  
Source: 2016 AACS.

**R 408.10586**  
Source: 1992 AACS.

**R 408.10587**  
Source: 1992 AACS.

**R 408.10588**  
Source: 1992 AACS.

**R 408.10589**  
Source: 2016 AACS.

**R 408.10590**  
Source: 2013 AACS.

**R 408.10591**  
Source: 2016 AACS.

**R 408.10592**  
Source: 2018 AACS.

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**GENERAL INDUSTRY SAFETY AND HEALTH STANDARD**

**PART 6. FIRE EXITS**

**GENERAL PROVISIONS**

**R 408.10601**

Source: 2015 AACS.

**R 408.10602**

Source: 1979 AC.

**R 408.10603**

Source: 2015 AACS.

**R 408.10604**

Source: 2015 AACS.

**R 408.10605**

Source: 2015 AACS.

**R 408.10606**

Source: 2019 AACS.

**R 408.10607**

Source: 1954. ACS.

**R 408.10608**

Source: 1990 AACS.

**R 408.10610**

Source: 1954 ACS.

**R 408.10611**

Source: 2015 AACS.

**R 408.10612**

Source: 2015 AACS.

**R 408.10613**

Source: 2015 AACS.

**R 408.10614**

Source: 1979 AC.

**R 408.10615**

Source: 1954 ACS.

**R 408.10616**

Source: 1954 ACS.

**R 408.10617**

Source: 1954 ACS.

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**CLASSES OF OCCUPANCY AND HAZARD OF CONTENTS**

**R 408.10621**

Source: 2015 AACS.

**R 408.10622**

Source: 1979 AC.

**R 408.10623**

Source: 2015 AACS.

**R 408.10624**

Source: 2015 AACS.

**R 408.10625**

Source: 1954 ACS.

**R 408.10626**

Source: 1954 ACS.

**R 408.10627**

Source: 2015 AACS.

**MEANS OF EGRESS**

**R 408.10631**

Source: 2015 AACS.

**R 408.10632**

Source: 2019 AACS.

**R 408.10633**

Source: 2015 AACS.

**R 408.10634**

Source: 2015 AACS.

**R 408.10635**

Source: 1979 AC.

**R 408.10636**

Source: 2015 AACS.

**R 408.10637**

Source: 2015 AACS.

**R 408.10638**

Source: 2015 AACS.

**R 408.10639**

Source: 2015 AACS.

**R 408.10641**

Source: 2019 AACS.

**DOORS AND STAIRS**



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**R 408.10643**

Source: 2015 AACS.

**R 408.10644**

Source: 2015 AACS.

**R 408.10645**

Source: 2015 AACS.

**R 408.10646**

Source: 1979 AC.

**R 408.10647**

Source: 2015 AACS.

**R 408.10651**

Source: 1979 AC.

**HORIZONTAL EXITS, RAMPS, AND ESCALATORS**

**R 408.10661**

Source: 2015 AACS.

**R 408.10664**

Source: 2015 AACS.

**R 408.10667**

Source: 1979 AC.

**FIRE ESCAPES**

**R 408.10671**

Source: 2015 AACS.

**R 408.10672**

Source: 1979 AC.

**R 408.10673**

Source: 2015 AACS.

**R 408.10674**

Source: 1979 AC.

**R 408.10675**

Source: 2015 AACS.

**R 408.10677**

Source: 2019 AACS.

**R 408.10679**

Source: 1998-2000 AACS.

**ILLUMINATION AND MARKING**

**R 408.10680**

Source: 2015 AACS.

**R 408.10681**

Source: 1979 AC.

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**R 408.10682**

Source: 1979 AC.

**R 408.10685**

Source: 2015 AACS.

**R 408.10686**

Source: 2015 AACS.

**MISCELLANEOUS OCCUPANCIES**

**R 408.10691**

Source: 1979 AC.

**R 408.10692**

Source: 1979 AC.

**R 408.10693**

Source: 1979 AC.

**R 408.10694**

Source: 1979 AC.

**R 408.10695**

Source: 2019 AACS.

**R 408.10696**

Source: 2019 AACS.

**R 408.10697**

Source: 1979 AC.

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**GENERAL INDUSTRY SAFETY AND HEALTH STANDARD**

**PART 7. GUARDS FOR POWER TRANSMISSION**

**R 408.10701**

Source: 1979 AC.

**R 408.10702**

Source: 2019 AACS.

**R 408.10703**

Source: 1982 AACS.

**R 408.10704**

Source: 1979 AC.

**POWER TRANSMISSION EQUIPMENT**

**R 408.10711**

Source: 2019 AACS.

**R 408.10712**

Source: 2019 AACS.

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**R 408.10713**  
Source: 2019 AACS.

**R 408.10714**  
Source: 1997 AACS.

**R 408.10715**  
Source: 1982 AACS.

**R 408.10716**  
Source: 1982 AACS.

**R 408.10721**  
Source: 1982 AACS.

**R 408.10722**  
Source: 1982 AACS.

**R 408.10723**  
Source: 1979 AC.

**R 408.10725**  
Source: 1982 AACS.

**R 408.10726**  
Source: 1982 AACS.

**R 408.10727**  
Source: 2019 AACS.

**R 408.10728**  
Source: 1979 AC.

**R 408.10729**  
Source: 1979 AC.

**R 408.10730**  
Source: 1982 AACS.

**R 408.10731**  
Source: 1982 AACS.

**R 408.10732**  
Source: 1979 AC.

**R 408.10734**  
Source: 1982 AACS.

**R 408.10736**  
Source: 1979 AC.

**R 408.10738**  
Source: 1979 AC.

**STARTING AND STOPPING DEVICES**

**R 408.10741**  
Source: 1982 AACS.

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**R 408.10743**

Source: 1979 AC.

**R 408.10744**

Source: 1982 AACS.

**GUARD DESIGN AND CONSTRUCTION**

**R 408.10751**

Source: 1979 AC.

**R 408.10752**

Source: 1979 AC.

**R 408.10753**

Source: 2016 AACS.

**R 408.10754**

Source: 1982 AACS.

**R 408.10757**

Source: 1997 AACS.

**POWER DISCONNECTS AND LOCK-OUTS**

**R 408.10761**

Source: 2013 AACS.

**R 408.10763**

Source: 2013 AACS.

**R 408.10765**

Source: 2013 AACS.

**PART 8. PORTABLE FIRE EXTINGUISHERS**

**GENERAL PROVISIONS**

**R 408.10801**

Source: 2013 AACS.

**R 408.10803**

Source: 2006 AACS.

**R 408.10804**

Source: 1979 AC.

**R 408.10805**

Source: 1979 AC.

**R 408.10807**

Source: 2013 AACS.

**R 408.10808**

Source: 1979 AC.

**R 408.10811**

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**Source:** 2006 AACS.

**R 408.10812**

**Source:** 1979 AC.

**R 408.10813**

**Source:** 2006 AACS.

**R 408.10814**

**Source:** 1980 AACS.

**DISTRIBUTION**

**R 408.10821**

**Source:** 1979 AC.

**R 408.10822**

**Source:** 2006 AACS.

**R 408.10823**

**Source:** 2013 AACS.

**R 408.10824**

**Source:** 1979 AC.

**R 408.10825**

**Source:** 1979 AC.

**R 408.10826**

**Source:** 2006 AACS.

**R 408.10831**

**Source:** 1979 AC.

**R 408.10833**

**Source:** 2006 AACS.

**R 408.10836**

**Source:** 2006 AACS.

**R 408.10837**

**Source:** 1979 AC.

**R 408.10839**

**Source:** 1984 AACS.

**PART 9. FIXED FIRE EQUIPMENT**

**GENERAL PROVISIONS**

**R 408.10901**

**Source:** 1984 AACS.

**R 408.10902**

**Source:** 1979 AC.

**R 408.10903**

**Source:** 1984 AACS.

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**R 408.10905**

Source: 1979 AC.

**R 408.10907**

Source: 1979 AC.

**R 408.10911**

Source: 1979 AC.

**R 408.10912**

Source: 1979 AC.

**R 408.10913**

Source: 1984 AACS.

**R 408.10914**

Source: 2013 AACS.

**R 408.10916**

Source: 1979 AC.

**R 408.10917**

Source: 1979 AC.

**R 408.10919**

Source: 1984 AACS.

**R 408.10920**

Source: 1984 AACS.

**AUTOMATIC SPRINKLER SYSTEMS**

**R 408.10921**

Source: 1984 AACS.

**R 408.10923**

Source: 1979 AC.

**R 408.10924**

Source: 1979 AC.

**R 408.10925**

Source: 2013 AACS.

**R 408.10926**

Source: 1984 AACS.

**R 408.10927**

Source: 1979 AC.

**R 408.10928**

Source: 1984 AACS.

**STANDPIPE AND HOSE SYSTEMS**

**R 408.10931**

Source: 1984 AACS.

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**R 408.10933**

Source: 1979 AC.

**R 408.10934**

Source: 1984 AACS.

**R 408.10935**

Source: 1979 AC.

**R 408.10936**

Source: 1997 AACS.

**R 408.10937**

Source: 1984 AACS.

**CARBON DIOXIDE SYSTEMS**

**R 408.10941**

Source: 1984 AACS.

**R 408.10944**

Source: 1979 AC.

**R 408.10945**

Source: 1979 AC.

**R 408.10946**

Source: 1979 AC.

**DRY CHEMICAL SYSTEMS**

**R 408.10951**

Source: 1984 AACS.

**R 408.10952**

Source: 1984 AACS.

**R 408.10953**

Source: 1979 AC.

**R 408.10954**

Source: 1979 AC.

**R 408.10955**

Source: 1979 AC.

**FOAM SYSTEMS**

**R 408.10961**

Source: 1984 AACS.

**R 408.10963**

Source: 1984 AACS.

**R 408.10964**

Source: 1984 AACS.

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**R 408.10965**  
**Source:** 1984 AACS.

**HALOGENATED EXTINGUISHING SYSTEMS**

**R 408.10971**  
**Source:** 1984 AACS.

**R 408.10973**  
**Source:** 1979 AC.

**R 408.10975**  
**Source:** 1979 AC.

**R 408.10976**  
**Source:** 1979 AC.

**LOCAL FIRE ALARM SYSTEMS**

**R 408.10981**  
**Source:** 1984 AACS.

**R 408.10983**  
**Source:** 1984 AACS.

**R 408.10984**  
**Source:** 1979 AC.

**FIRE DETECTION SYSTEMS**

**R 408.10991**  
**Source:** 1984 AACS.

**R 408.10993**  
**Source:** 1984 AACS.

**R 408.10995**  
**Source:** 1984 AACS.

**R 408.10999**  
**Source:** 2013 AACS.

**PART 11. POLISHING, BUFFING, AND ABRADING**

**R 408.11101**  
**Source:** 1979 AC.

**R 408.11103**  
**Source:** 1979 AC.

**R 408.11104**  
**Source:** 1979 AC.

**R 408.11105**  
**Source:** 1979 AC.



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**R 408.11111**  
**Source:** 1983 AACS.

**R 408.11115**  
**Source:** 1979 AC.

**R 408.11116**  
**Source:** 1979 AC.

**R 408.11118**  
**Source:** 1979 AC.

**R 408.11119**  
**Source:** 2013 AACS.

**R 408.11121**  
**Source:** 2013 AACS.

**R 408.11123**  
**Source:** 1979 AC.

**R 408.11131**  
**Source:** 1979 AC.

**R 408.11135**  
**Source:** 1979 AC.

**R 408.11137**  
**Source:** 1979 AC.

**PART 12. WELDING AND CUTTING**

**R 408.11201**  
**Source:** 1979 AC.

**R 408.11202**  
**Source:** 2013 AACS.

**R 408.11203**  
**Source:** 2013 AACS.

**R 408.11204**  
**Source:** 1979 AC.

**R 408.11205**  
**Source:** 1988 AACS.

**R 408.11211**  
**Source:** 2013 AACS.

**R 408.11212**  
**Source:** 1988 AACS.

**R 408.11213**

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**Source:** 2013 AACCS.

**R 408.11214**

**Source:** 1997 AACCS.

**R 408.11221**

**Source:** 2013 AACCS.

**R 408.11222**

**Source:** 2013 AACCS.

**R 408.11223**

**Source:** 1979 AC.

**R 408.11224**

**Source:** 2013 AACCS.

**R 408.11225**

**Source:** 1988 AACCS.

**R 408.11231**

**Source:** 1979 AC.

**R 408.11232**

**Source:** 1981 AACCS.

**R 408.11233**

**Source:** 1979 AC.

**R 408.11234**

**Source:** 1981 AACCS.

**R 408.11241**

**Source:** 2013 AACCS.

**R 408.11242**

**Source:** 1981 AACCS.

**R 408.11243**

**Source:** 2013 AACCS.

**R 408.11244**

**Source:** 1979 AC.

**R 408.11245**

**Source:** 1979 AC.

**R 408.11251**

**Source:** 1979 AC.

**R 408.11252**

**Source:** 1979 AC.

**R 408.11253**

**Source:** 1979 AC.

**R 408.11254**

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**Source:** 1979 AC.

**R 408.11261**

**Source:** 1979 AC.

**R 408.11262**

**Source:** 2013 AACS.

**R 408.11271**

**Source:** 1979 AC.

**R 408.11272**

**Source:** 1979 AC.

**R 408.11273**

**Source:** 1979 AC.

**R 408.11274**

**Source:** 1979 AC.

**R 408.11275**

**Source:** 2013 AACS.

**R 408.11276**

**Source:** 1979 AC.

**R 408.11281**

**Source:** 1988 AACS.

**R 408.11282**

**Source:** 1979 AC.

**R 408.11283**

**Source:** 1979 AC.

**R 408.11284**

**Source:** 1979 AC.

**R 408.11291**

**Source:** 1979 AC.

**R 408.11292**

**Source:** 1981 AACS.

**R 408.11293**

**Source:** 2013 AACS.

**R 408.11294**

**Source:** 2013 AACS.

**R 408.11295**

**Source:** 1979 AC.

**R 408.11296**

**Source:** 1979 AC.

**R 408.11297**

**Source:** 1997 AACS.

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**R 408.11298**  
**Source:** 1981 AACS.

**R 408.11299**  
**Source:** 1981 AACS.

**PART 13. DERRICKS**

**R 408.11301**  
**Source:** 1982 AACS.

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**PART 14. CONVEYORS**

**GENERAL PROVISIONS**

**R 408.11401**  
**Source:** 1979 AC.

**R 408.11402**  
**Source:** 2019 AACS.

**R 408.11403**  
**Source:** 2019 AACS.

**R 408.11404**  
**Source:** 1979 AC.

**R 408.11405**  
**Source:** 1979 AC.

**R 408.11406**  
**Source:** 1979 AC.

**R 408.11407**  
**Source:** 2017 AACS.

**R 408.11411**  
**Source:** 1979 AC.

**R 408.11412**  
**Source:** 2017 AACS.

**DESIGN**

**R 408.11421**  
**Source:** 2019 AACS.

**R 408.11422**  
**Source:** 2017 AACS.

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**R 408.11423**

Source: 1979 AC.

**R 408.11424**

Source: 1979 AC.

**R 408.11425**

Source: 2019 AACS.

**R 408.11426**

Source: 1979 AC.

**R 408.11427**

Source: 1979 AC.

**R 408.11428**

Source: 1979 AC.

**R 408.11429**

Source: 1979 AC.

**ELECTRICAL**

**R 408.11431**

Source: 2013 AACS.

**R 408.11432**

Source: 1979 AC.

**R 408.11433**

Source: 2017 AACS.

**R 408.11434**

Source: 2013 AACS.

**R 408.11435**

Source: 2013 AACS.

**R 408.11436**

Source: 1997 AACS.

**SPECIFIC CONVEYORS**

**R 408.11441**

Source: 1979 AC.

**R 408.11442**

Source: 1979 AC.

**R 408.11443**

Source: 1979 AC.

**R 408.11444**

Source: 1979 AC.

**R 408.11445**

Source: 1979 AC.

**R 408.11446**

Source: 1979 AC.

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**R 408.11447**

Source: 1979 AC.

**R 408.11448**

Source: 1979 AC.

**R 408.11449**

Source: 1979 AC.

**R 408.11450**

Source: 2017 AACS.

**R 408.11451**

Source: 1979 AC.

**R 408.11452**

Source: 1979 AC.

**R 408.11461**

Source: 1979 AC.

**PART 16. LABELING OF HAZARDOUS SUBSTANCES**

**R 408.11601**

Source: 1997 AACS.

**R 408.11602**

Source: 1997 AACS.

**R 408.11603**

Source: 1997 AACS.

**R 408.11604**

Source: 1997 AACS.

**R 408.11605**

Source: 1997 AACS.

**R 408.11606**

Source: 1997 AACS.

**R 408.11607**

Source: 1997 AACS.

**R 408.11608**

Source: 1997 AACS.

**R 408.11609**

Source: 1997 AACS.

**R 408.11610**

Source: 1997 AACS.

**R 408.11611**

Source: 1997 AACS.

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**R 408.11612**  
**Source:** 1997 AACS.

**R 408.11613**  
**Source:** 1997 AACS.

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**GENERAL INDUSTRY SAFETY AND HEALTH STANDARD**

**PART 17. REFUSE PACKER UNITS**

**R 408.11701**  
**Source:** 1979 AC.

**R 408.11704**  
**Source:** 1979 AC.

**R 408.11705**  
**Source:** 1979 AC.

**R 408.11706**  
**Source:** 1979 AC.

**R 408.11711**  
**Source:** 1979 AC.

**R 408.11713**  
**Source:** 1979 AC.

**R 408.11715**  
**Source:** 1979 AC.

**R 408.11716**  
**Source:** 1979 AC.

**R 408.11717**  
**Source:** 1979 AC.

**R 408.11718**  
**Source:** 1979 AC.

**MOBILE UNITS**

**R 408.11721**  
**Source:** 2019 AACS.

**R 408.11722**  
**Source:** 1979 AC.

**R 408.11723**  
**Source:** 1979 AC.

**R 408.11724**  
**Source:** 2013 AACS.

**R 408.11725**

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**Source:** 2013 AACS.

**STATIONARY UNITS**

**R 408.11731**

**Source:** 1979 AC.

**R 408.11732**

**Source:** 2019 AACS.

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**PART 18. OVERHEAD AND GANTRY CRANES**

**R 408.11801**

**Source:** 2018 AACS.

**R 408.11803**

**Source:** 2002 AACS.

**R 408.11804**

**Source:** 2002 AACS.

**R 408.11805**

**Source:** 2002 AACS.

**R 408.11806**

**Source:** 2002 AACS.

**R 408.11807**

**Source:** 2018 AACS.

**R 408.11808**

**Source:** 2018 AACS.

**R 408.11821**

**Source:** 2018 AACS.

**R 408.11822**

**Source:** 2005 AACS.

**R 408.11823 S**

**Source:** 2018 AACS.

**R 408.11824**

**Source:** 2018 AACS.

**R 408.11825**

**Source:** 2002 AACS.

**R 408.11826**

**Source:** 2002 AACS.

**R 408.11827**

**Source:** 2002 AACS.



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- R 408.11831**  
Source: 1979 AC.
- R 408.11832**  
Source: 1979 AC.
- R 408.11833**  
Source: 2002 AACS.
- R 408.11835**  
Source: 2018 AACS.
- R 408.11837**  
Source: 2002 AACS.
- R 408.11841**  
Source: 2002 AACS.
- R 408.11843**  
Source: 2018 AACS.
- R 408.11844**  
Source: 2018 AACS.
- R 408.11845**  
Source: 2002 AACS.
- R 408.11847**  
Source: 2002 AACS.
- R 408.11851**  
Source: 2013 AACS.
- R 408.11852**  
Source: 2018 AACS.
- R 408.11853**  
Source: 2002 AACS.
- R 408.11854**  
Source: 2018 AACS.
- R 408.11855**  
Source: 2005 AACS.
- R 408.11857**  
Source: 2002 AACS.
- R 408.11859**  
Source: 2013 AACS.
- R 408.11861**  
Source: 2002 AACS.
- R 408.11863**  
Source: 2018 AACS.
- R 408.11865**

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**Source:** 2018 AACS.

**R 408.11871**

**Source:** 2018 AACS.

**R 408.11872**

**Source:** 2018 AACS.

**R 408.11873**

**Source:** 2018 AACS.

**R 408.11874**

**Source:** 2002 AACS.

**R 408.11875**

**Source:** 2002 AACS.

**R 408.11901**

**Source:** 1979 AC.

**R 408.11902**

**Source:** 2013 AACS.

**R 408.11903**

**Source:** 1979 AC.

**R 408.11904**

**Source:** 1979 AC.

**R 408.11905**

**Source:** 1979 AC.

**R 408.11906**

**Source:** 1979 AC.

**R 408.11911**

**Source:** 1979 AC.

**R 408.11912**

**Source:** 1979 AC.

**R 408.11913**

**Source:** 2013 AACS.

**R 408.11914**

**Source:** 1979 AC.

**R 408.11915**

**Source:** 1979 AC.

**R 408.11916**

**Source:** 1997 AACS.

**R 408.11921**

**Source:** 2013 AACS.

**R 408.11923**

**Source:** 1979 AC.

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**R 408.11924**  
Source: 1979 AC.

**R 408.11931**  
Source: 1979 AC.

**R 408.11932**  
Source: 1979 AC.

**R 408.11933**  
Source: 1979 AC.

**R 408.11934**  
Source: 1979 AC.

**R 408.11935**  
Source: 1979 AC.

**R 408.11936**  
Source: 1979 AC.

**R 408.11937**  
Source: 2013 AACS.

**R 408.11941**  
Source: 1979 AC.

**R 408.11942**  
Source: 1979 AC.

**R 408.11943**  
Source: 1989 AACS.

**R 408.11951**  
Source: 1979 AC.

**R 408.11952**  
Source: 1979 AC.

**R 408.11953**  
Source: 1979 AC.

**R 408.11954**  
Source: 1979 AC.

**R 408.11955**  
Source: 1979 AC.

**R 408.11956**  
Source: 1979 AC.

**R 408.11957**  
Source: 2013 AACS.

**R 408.11971**  
Source: 1979 AC.

**R 408.11972**  
Source: 1979 AC.

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**PART 20. UNDERHUNG CRANES AND MONORAIL SYSTEMS**

**R 408.12001**

Source: 1990 AACS.

**R 408.12002**

Source: 2019 AACS.

**R 408.12003**

Source: 1990 AACS.

**R 408.12004**

Source: 1990 AACS.

**R 408.12005**

Source: 1990 AACS.

**CONSTRUCTION, INSTALLATION, AND TESTING**

**R 408.12011**

Source: 2013 AACS.

**R 408.12012**

Source: 1990 AACS.

**R 408.12013**

Source: 1990 AACS.

**R 408.12014**

Source: 1990 AACS.

**R 408.12015**

Source: 1990 AACS.

**R 408.12016**

Source: 2019 AACS.

**R 408.12017**

Source: 1990 AACS.

**R 408.12018**

Source: 1990 AACS.

**R 408.12019**

Source: 1990 AACS.

**OPERATORS AND OPERATIONS**

**R 408.12021**

Source: 2013 AACS.

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**R 408.12022**

Source: 1990 AACS.

**R 408.12023**

Source: 1990 AACS.

**R 408.12024**

Source: 1990 AACS.

**R 408.12025**

Source: 1990 AACS.

**R 408.12026**

Source: 2013 AACS.

**R 408.12031**

Source: 1990 AACS.

**R 408.12032**

Source: 1990 AACS.

**R 408.12033**

Source: 1990 AACS.

**R 408.12034**

Source: 1990 AACS.

**R 408.12035**

Source: 1990 AACS.

**INSPECTION AND MAINTENANCE**

**R 408.12041**

Source: 1990 AACS.

**R 408.12042**

Source: 1990 AACS.

**R 408.12043**

Source: 2013 AACS.

**R 408.12044**

Source: 1990 AACS.

**R 408.12045**

Source: 1990 AACS.

**PART 21. POWERED INDUSTRIAL TRUCKS**

**R 408.12101**

Source: 2016 AACS.

**R 408.12102**

Source: 2016 AACS.

**R 408.12103**

Source: 2016 AACS.

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**R 408.12104**  
Source: 1998-2000 AACS.

**R 408.12105**  
Source: 1998-2000 AACS.

**R 408.12106**  
Source: 2016 AACS.

**R 408.12107**  
Source: 2016 AACS.

**R 408.12108**  
Source: 2016 AACS.

**R 408.12109**  
Source: 2016 AACS.

**R 408.12110**  
Source: 2016 AACS.

**R 408.12111**  
Source: 2018 AACS.

**R 408.12121**  
Source: 1998-2000 AACS.

**R 408.12122**  
Source: 1979 AC.

**R 408.12123**  
Source: 1979 AC.

**R 408.12124**  
Source: 1979 AC.

**R 408.12125**  
Source: 1979 AC.

**R 408.12126**  
Source: 1979 AC.

**R 408.12127**  
Source: 1979 AC.

**R 408.12128**  
Source: 1979 AC.

**R 408.12129**  
Source: 1979 AC.

**R 408.12130**  
Source: 1998-2000 AACS.

**R 408.12131**  
Source: 2018 AACS.

**R 408.12132**

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**Source:** 2016 AACS.

**R 408.12133**

**Source:** 1979 AC.

**R 408.12134**

**Source:** 1998-2000 AACS.

**R 408.12135**

**Source:** 1998-2000 AACS.

**R 408.12136**

**Source:** 2016 AACS.

**R 408.12137**

**Source:** 2016 AACS.

**R 408.12138**

**Source:** 1998-2000 AACS.

**R 408.12139**

**Source:** 2016 AACS.

**R 408.12143**

**Source:** 2016 AACS.

**R 408.12151**

**Source:** 2013 AACS.

**R 408.12152**

**Source:** 2016 AACS.

**R 408.12153**

**Source:** 2016 AACS.

**R 408.12154**

**Source:** 2016 AACS.

**R 408.12155**

**Source:** 2018 AACS.

**R 408.12161**

**Source:** 1980 AACS.

**R 408.12162**

**Source:** 1983 AACS.

**R 408.12163**

**Source:** 2016 AACS.

**R 408.12164**

**Source:** 2018 AACS.

**R 408.12165**

**Source:** 2018 AACS.

**R 408.12166**

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**Source:** 1979 AC.

**R 408.12167**

**Source:** 1979 AC.

**R 408.12168**

**Source:** 1979 AC.

**R 408.12169**

**Source:** 2018 AACS.

**R 408.12171**

**Source:** 2016 AACS.

**R 408.12172**

**Source:** 1998-2000 AACS.

**R 408.12173**

**Source:** 1998-2000 AACS.

**R 408.12174**

**Source:** 1979 AC.

**R 408.12175**

**Source:** 1979 AC.

**R 408.12176**

**Source:** 2018 AACS.

**R 408.12177**

**Source:** 1983 AACS.

**R 408.12178**

**Source:** 1979 AC.

**R 408.12179**

**Source:** 1983 AACS.

**R 408.12180**

**Source:** 1979 AC.

**R 408.12181**

**Source:** 1979 AC.

**R 408.12182**

**Source:** 1979 AC.

**R 408.12183**

**Source:** 1983 AACS.

**R 408.12184**

**Source:** 1983 AACS.

**R 408.12185**

**Source:** 1979 AC.

**R 408.12186**

**Source:** 1979 AC.



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**R 408.12187**

Source: 1979 AC.

**R 408.12188**

Source: 1979 AC.

**R 408.12189**

Source: 1979 AC.

**R 408.12190**

Source: 2018 AACS.

**R 408.12191**

Source: 1979 AC.

**R 408.12192**

Source: 1979 AC.

**R 408.12193**

Source: 1979 AC.

**PART 22. TRACTORS**

**R 408.12201**

Source: 1979 AC.

**R 408.12202**

Source: 2013 AACS.

**R 408.12203**

Source: 1979 AC.

**R 408.12205**

Source: 1979 AC.

**R 408.12206**

Source: 1979 AC.

**R 408.12207**

Source: 1979 AC.

**R 408.12211**

Source: 1979 AC.

**R 408.12212**

Source: 1979 AC.

**R 408.12213**

Source: 1979 AC.

**R 408.12214**

Source: 1979 AC.

**R 408.12215**

Source: 1979 AC.

**R 408.12216**

Source: 2013 AACS.

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**R 408.12217**  
**Source:** 2013 AACCS.

**R 408.12218**  
**Source:** 2013 AACCS.

**R 408.12219**  
**Source:** 1979 AC.

**R 408.12220**  
**Source:** 2013 AACCS.

**R 408.12231**  
**Source:** 2013 AACCS.

**R 408.12232**  
**Source:** 1979 AC.

**R 408.12233**  
**Source:** 1979 AC.

**R 408.12234**  
**Source:** 1979 AC.

**R 408.12235**  
**Source:** 1979 AC.

**R 408.12236**  
**Source:** 1979 AC.

**R 408.12237**  
**Source:** 1979 AC.

**R 408.12238**  
**Source:** 1979 AC.

**R 408.12239**  
**Source:** 1979 AC.

**R 408.12240**  
**Source:** 1979 AC.

**R 408.12241**  
**Source:** 1979 AC.

**R 408.12242**  
**Source:** 2013 AACCS.

**R 408.12243**  
**Source:** 1979 AC.

**R 408.12251**  
**Source:** 1979 AC.

**R 408.12252**  
**Source:** 1979 AC.

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**R 408.12253**

Source: 1979 AC.

**R 408.12254**

Source: 1979 AC.

**R 408.12255**

Source: 1979 AC.

**R 408.12259**

Source: 1979 AC.

**R 408.12260**

Source: 1979 AC.

**R 408.12261**

Source: 1979 AC.

**DEPARTMENT OF LABOR AND ECONOMIC OPPORTUNITY**

**DIRECTOR'S OFFICE**

**GENERAL INDUSTRY SAFETY AND HEALTH STANDARD**

**PART 23. HYDRAULIC POWER PRESSES**

**GENERAL PROVISIONS**

**R 408.12301**

Source: 1979 AC.

**R 408.12303**

Source: 1979 AC.

**R 408.12304**

Source: 1979 AC.

**R 408.12305**

Source: 1979 AC.

**R 408.12306 Definitions; E.**

Rule 2306. (1) "Ejector" means a device for removing work or material from between dies.

(2) "Electronic-control device" means a device so designed and controlled that when the operator's hand or another part of the body is within the point of operation, the press cannot be tripped, and if the hand or another part of the operator's body is inserted into the point of operation area while the slide is descending, the device shall automatically stop the slide. The device may employ active circuit elements such as vacuum tubes, gas tubes, or semiconductor amplifiers, but not magnetic amplifiers, in conjunction with passive circuit elements, such as transformers, inductors, capacitors, resistors or magnetic device operating coils.

History: 1979 AC; 2023 MR 6, Eff. March 27, 2023.

**R 408.12307**

Source: 1979 AC.

**R 408.12308**

Source: 1979 AC.

**R 408.12309**

Source: 1979 AC.

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**R 408.12310 Definitions; P.**

Rule 2310. (1) "Pinch point" means any point, other than the point of operation, at which it is possible for a part of the body to be injured by being caught between the moving parts of the press or auxiliary equipment, between moving and stationary parts of the press or auxiliary equipment, or between the material and moving parts of the press or auxiliary equipment.

(2) "Point of operation" means the area of the press where material is actually positioned, and where work is being performed, during any process such as shearing, punching, or forming.

(3) "Point of operation device" means a press control or attachment that does any of the following:

(a) Restrains the operator from inadvertently reaching into the point of operation.

(b) Prevents normal press operation if the operator's hands are inadvertently within the point of operation.

(c) Automatically withdraws the operator's hands if they are inadvertently within the point of operation as the dies close.

(4) "Presence sensing device" means a device designed, constructed, and arranged to create a sensing field or area, and to deactivate the control of the press when an operator's hand or other part of the body is within the field or area.

(5) "Press," as referred to in this part, means a powered machine, having a liquid energy transfer media that actuates the slide motion toward and away from the bed surface, where the slide is guided in a definite path by a frame or cylinder.

(6) "Primary operation" means a preliminary press operation applied to material to be subsequently processed. Examples of primary operation include blanking, piercing, and corner cutting.

(7) "Pull-out device" means a mechanism attached to the operator's hands or arms and connected to the slide or upper die, and designed to withdraw the operator's hands from the point of operation as the slide or upper die descends.

History: 1979 AC; 2023 MR 6, Eff. March 27, 2023.

**R 408.12311**

Source: 1979 AC.

**R 408.12312**

Source: 1979 AC.

**R 408.12316**

Source: 1979 AC.

**R 408.12321**

Source: 1979 AC.

**R 408.12322**

Source: 1979 AC.

**R 408.12323**

Source: 1979 AC.

**R 408.12324**

Source: 1979 AC.

**R 408.12325**

Source: 1979 AC.

**R 408.12326**

Source: 1979 AC.

**R 408.12327**

Source: 1979 AC.

**R 408.12331 Two-hand controls.**

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Rule 2331. (1) A 2-hand control shall require the application of both hands to operate the press and shall require concurrent pressure on both controls until a point is reached in the downward stroke where the die opening is such that the operator cannot remove their hands and place them within the point of operation. Removal of 1 or both hands, before the closing portion of the cycle, shall either stop the slide or return the slide to its starting position.

(2) Two-hand controls for single-stroke operation, manufactured and installed on or after August 31, 1971, shall be designed to require release of all operator's hand controls before a second stroke can be initiated.

(3) Controls for more than 1 operating station shall be designed to be activated and deactivated in complete sets of 2-hand controls per operating station, by means capable of being supervised by the employer.

(4) If foot control is provided, the selection method between hand and foot control shall be separated from the stroking selector and shall be designed so that the selection may be supervised by the employer.

(5) A 2-hand control is a mechanically, pneumatically, or electrically controlled system.

(6) A 2-hand control shall be installed to prevent "bridging" controls, so that it can be operated by 2 hands only.

(7) In a press operation requiring more than 1 operator, a set of 2-hand controls shall be provided for each operator. However, a foot control may be used with 2-hand controls if arranged to operate concurrently (otherwise, no cycle) and if the operator is not exposed to the point of operation.

(8) If each of the operating stations is provided with a lockout arrangement, provisions shall be made to prevent an unintentional press cycle when all of the operating controls are locked out.

History: 1979 AC; 2023 MR 6, Eff. March 27, 2023.

**R 408.12332**

Source: 1979 AC.

**R 408.12334**

Source: 1979 AC.

**R 408.12336**

Source: 1997 AACS.

**R 408.12338**

Source: 1979 AC.

**R 408.12341 Presence sensing devices.**

Rule 2341. (1) A presence sensing device shall be designed and installed so that when the operator's hands or another part of the body disturbs the sensing field, the downward travel of the slide is prevented or stopped. This device shall not be used as a tripping means.

(2) Equipment shall be installed so that failure of light or photoelectric relay or other energy source makes the press inoperative.

(3) These devices shall not, in themselves, create a physical or organic hazard to the operator.

(4) The safety distance (Ds) from the sensing field to the point of operation shall be greater than the distance determined by the following formula:

Ds = 63 inches/second X TS where:

Ds = minimum safety distance (inches); 63 inches/second = hand speed constant; and

TS = stopping time of press measured when slide has completed approximately half of the downward stroke.

(5) To protect all areas of entry to the point of operation not protected by the presence sensing device, the partial enclosure shall be used and shall not create a pinch point or shear hazard.

History: 1979 AC; 2023 MR 6, Eff. March 27, 2023.

**R 408.12343**

Source: 1979 AC.

**R 408.12344**

Source: 1979 AC.

**R 408.12345**

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**Source:** 1979 AC.

**R 408.12351**

**Source:** 1979 AC.

**R 408.12353**

**Source:** 1979 AC.

**R 408.12355**

**Source:** 1979 AC.

**R 408.12356**

**Source:** 1979 AC.

**R 408.12361**

**Source:** 1979 AC.

**R 408.12363 Ejecting stock and scrap.**

Rule 2363. (1) Spring pads or rubber strippers, or equivalent means, shall be provided where required on punching or piercing dies to ensure that parts are stripped or knocked out.

(2) Automatic ejection of stock and scrap should be considered during die design.

(3) The employer shall provide means for safely handling scrap from roll feed or random length stock operations. Scrap cutters used in conjunction with scrap handling systems shall be safeguarded pursuant to table 2. Scrap recoil devices may be used instead of scrap cutters.

History: 1979 AC; 2023 MR 6, Eff. March 27, 2023.

**R 408.12365**

**Source:** 1979 AC.

**R 408.12366**

**Source:** 1979 AC.

**R 408.12367**

**Source:** 1979 AC.

**R 408.12369**

**Source:** 1979 AC.

**R 408.12370**

**Source:** 1979 AC.

**R 408.12371**

**Source:** 1979 AC.

**R 408.12372**

**Source:** 1979 AC.

**R 408.12373 Inspection and maintenance records.**

Rule 2373. The employer shall establish and follow a program of periodic and regular inspections of presses to ensure that all their parts, auxiliary equipment, and safeguards are in a safe operating condition and adjustment. The employer shall maintain records of these inspections and of the maintenance work performed.

History: 1979 AC; 2023 MR 6, Eff. March 27, 2023.

**PART 24. MECHANICAL POWER PRESSES**

**R 408.12401**

**Source:** 2016 AACS.

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**R 408.12402**  
Source: 2016 AACCS.

**R 408.12403**  
Source: 2016 AACCS.

**R 408.12404**  
Source: 1990 AACCS.

**R 408.12405**  
Source: 1979 AC.

**R 408.12406**  
Source: 1979 AC.

**R 408.12407**  
Source: 2016 AACCS.

**R 408.12408**  
Source: 2016 AACCS.

**R 408.12409**  
Source: 1979 AC.

**R 408.12411**  
Source: 2016 AACCS.

**R 408.12412**  
Source: 2016 AACCS.

**R 408.12413**  
Source: 2016 AACCS.

**R 408.12421**  
Source: 1979 AC.

**R 408.12422**  
Source: 1979 AC.

**R 408.12423**  
Source: 1979 AC.

**R 408.12424**  
Source: 1979 AC.

**R 408.12425**  
Source: 2016 AACCS.

**R 408.12426**  
Source: 1979 AC.

**R 408.12427**  
Source: 1979 AC.

**R 408.12428**  
Source: 2016 AACCS.

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- R 408.12429**  
Source: 1979 AC.
- R 408.12431**  
Source: 1979 AC.
- R 408.12432**  
Source: 1979 AC.
- R 408.12433**  
Source: 2016 AACS.
- R 408.12434**  
Source: 1979 AC.
- R 408.12441**  
Source: 1979 AC.
- R 408.12442**  
Source: 2016 AACS.
- R 408.12443**  
Source: 1990 AACS.
- R 408.12444**  
Source: 1979 AC.
- R 408.12445**  
Source: 1979 AC.
- R 408.12446**  
Source: 1979 AC.
- R 408.12447**  
Source: 1979 AC.
- R 408.12448**  
Source: 1979 AC.
- R 408.12449**  
Source: 1979 AC.
- R 408.12450**  
Source: 1979 AC.
- R 408.12451**  
Source: 2016 AACS.
- R 408.12452**  
Source: 1979 AC.
- R 408.12453**  
Source: 1979 AC.
- R 408.12454**  
Source: 1979 AC.



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**SAFEGUARDING THE POINT OF OPERATION**

**R 408.12461**  
Source: 2016 AACS.

**R 408.12462**  
Source: 1979 AC.

**R 408.12463**  
Source: 2016 AACS.

**R 408.12464**  
Source: 2016 AACS.

**DIE DESIGN, CONSTRUCTION, SETTING, AND FEEDING**

**R 408.12471**  
Source: 2016 AACS.

**R 408.12472**  
Source: 1990 AACS.

**R 408.12473**  
Source: 1990 AACS.

**R 408.12474**  
Source: 1990 AACS.

**R 408.12475**  
Source: 2016 AACS.

**R 408.12476**  
Source: 1979 AC.

**R 408.12477**  
Source: 1990 AACS.

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**PART 25. MANLIFTS**

**R 408.12501**  
Source: 2018 AACS.

**R 408.12505**  
Source: 2016 AACS.

**R 408.12510**  
Source: 2018 AACS.

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PART 26. METALWORKING MACHINERY**

**R 408.12601**

Source: 1979 AC.

**R 408.12602**

Source: 1979 AC.

**R 408.12603**

Source: 1979 AC.

**R 408.12604**

Source: 1979 AC.

**R 408.12605**

Source: 1991 AACS.

**R 408.12606**

Source: 1979 AC.

**R 408.12607**

Source: 1991 AACS.

**R 408.12608**

Source: 1979 AC.

**R 408.12611**

Source: 1979 AC.

**R 408.12612**

Source: 1979 AC.

**R 408.12613**

Source: 1997 AACS.

**R 408.12614**

Source: 1991 AACS.

**R 408.12615**

Source: 1997 AACS.

**R 408.12616**

Source: 2019 AACS.

**R 408.12617**

Source: 1997 AACS.

**R 408.12618**

Source: 1979 AC.

**R 408.12619**

Source: 1979 AC.

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**R 408.12620**  
**Source:** 1991 AACS.

**R 408.12622**  
**Source:** 1979 AC.

**SPECIFIC EQUIPMENT**

**R 408.12631**  
**Source:** 2019 AACS.

**R 408.12632**  
**Source:** 1979 AC.

**R 408.12633**  
**Source:** 2019 AACS.

**R 408.12634**  
**Source:** 1979 AC.

**R 408.12635**  
**Source:** 1991 AACS.

**R 408.12636**  
**Source:** 1991 AACS.

**R 408.12637**  
**Source:** 1979 AC.

**R 408.12638**  
**Source:** 2019 AACS.

**R 408.12639**  
**Source:** 2019 AACS.

**R 408.12640**  
**Source:** 1991 AACS.

**R 408.12641**  
**Source:** 1991 AACS.

**R 408.12642**  
**Source:** 2019 AACS.

**R 408.12643**  
**Source:** 1979 AC.

**R 408.12644**  
**Source:** 1979 AC.

**R 408.12645**  
**Source:** 1979 AC.

**R 408.12646**  
**Source:** 1991 AACS.

**R 408.12647**  
**Source:** 1979 AC.

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**R 408.12648**

**Source:** 1979 AC.

**R 408.12649**

**Source:** 1979 AC.

**R 408.12650**

**Source:** 1991 AACS.

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**PART 27. WOODWORKING MACHINERY**

**R 408.12701**

**Source:** 2018 AACS.

**R 408.12702**

**Source:** 2018 AACS.

**R 408.12705**

**Source:** 1979 AC.

**R 408.12706**

**Source:** 1979 AC.

**R 408.12707**

**Source:** 1979 AC.

**R 408.12708**

**Source:** 1979 AC.

**R 408.12709**

**Source:** 1979 AC.

**R 408.12711**

**Source:** 2018 AACS.

**R 408.12712**

**Source:** 2013 AACS.

**R 408.12714**

**Source:** 2018 AACS.

**R 408.12715**

**Source:** 1997 AACS.

**R 408.12716**

**Source:** 2013 AACS.

**R 408.12717**

**Source:** 2018 AACS.

**R 408.12718**

**Source:** 1981 AACS.

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**R 408.12719**  
**Source:** 2018 AACS.

**R 408.12720**  
**Source:** 1979 AC.

**R 408.12721**  
**Source:** 1979 AC.

**R 408.12722**  
**Source:** 1979 AC.

**R 408.12723**  
**Source:** 1979 AC.

**R 408.12724**  
**Source:** 2018 AACS.

**R 408.12725**  
**Source:** 1979 AC.

**R 408.12726**  
**Source:** 2018 AACS.

**R 408.12727**  
**Source:** 2018 AACS.

**R 408.12728**  
**Source:** 2018 AACS.

**R 408.12729**  
**Source:** 1979 AC.

**R 408.12730**  
**Source:** 2018 AACS.

**R 408.12731**  
**Source:** 1979 AC.

**R 408.12732**  
**Source:** 1979 AC.

**R 408.12733**  
**Source:** 2018 AACS.

**R 408.12736**  
**Source:** 2018 AACS.

**R 408.12737**  
**Source:** 1979 AC.

**R 408.12739**  
**Source:** 2018 AACS.

**R 408.12740**  
**Source:** 2013 AACS.

**R 408.12741**

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**Source:** 2018 AACS.

**R 408.12742**

**Source:** 1979 AC.

**R 408.12744**

**Source:** 1979 AC.

**R 408.12751**

**Source:** 1981 AACS.

**R 408.12752**

**Source:** 1979 AC.

**R 408.12755**

**Source:** 2018 AACS.

**R 408.12756**

**Source:** 1979 AC.

**R 408.12759**

**Source:** 2018 AACS.

**R 408.12761**

**Source:** 1979 AC.

**R 408.12762**

**Source:** 1979 AC.

**R 408.12763**

**Source:** 1979 AC.

**R 408.12767**

**Source:** 2018 AACS.

**R 408.12768**

**Source:** 1979 AC.

**R 408.12769**

**Source:** 1979 AC.

**R 408.12770**

**Source:** 1979 AC.

**R 408.12773**

**Source:** 2018 AACS.

**R 408.12774**

**Source:** 2013 AACS.

**R 408.12776**

**Source:** 1979 AC.

**R 408.12779**

**Source:** 2013 AACS.

**R 408.12781**

**Source:** 2018 AACS.

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**VENEER MACHINES**

**R 408.12784**

Source: 2018 AACS.

**R 408.12785**

Source: 1979 AC.

**R 408.12786**

Source: 1979 AC.

**R 408.12787**

Source: 1979 AC.

**R 408.12791**

Source: 2013 AACS.

**R 408.12792**

Source: 2018 AACS.

**R 408.12793**

Source: 2018 AACS.

**R 408.12794**

Source: 1979 AC.

**R 408.12795**

Source: 1979 AC.

**R 408.12796**

Source: 1979 AC.

**R 408.12797**

Source: 1979 AC.

**R 408.12798**

Source: 2018 AACS.

**R 408.12799**

Source: 2013 AACS.

**PART 31. PERSONAL PROTECTIVE EQUIPMENT**

**R 408.13101**

Source: 1997 AACS.

**R 408.13102**

Source: 1997 AACS.

**R 408.13103**

Source: 1997 AACS.

**R 408.13104**

Source: 1997 AACS.

**R 408.13105**

Source: 1997 AACS.

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**R 408.13106**  
**Source:** 1997 AACS.

**R 408.13107**  
**Source:** 1997 AACS.

**R 408.13108**  
**Source:** 1997 AACS.

**R 408.13109**  
**Source:** 1997 AACS.

**R 408.13110**  
**Source:** 1997 AACS.

**R 408.13111**  
**Source:** 1997 AACS.

**R 408.13112**  
**Source:** 1997 AACS.

**R 408.13113**  
**Source:** 1997 AACS.

**R 408.13114**  
**Source:** 1997 AACS.

**R 408.13115**  
**Source:** 1997 AACS.

**R 408.13116**  
**Source:** 1997 AACS.

**R 408.13117**  
**Source:** 1997 AACS.

**R 408.13118**  
**Source:** 1997 AACS.

**R 408.13119**  
**Source:** 1997 AACS.

**R 408.13120**  
**Source:** 1997 AACS.

**R 408.13121**  
**Source:** 1997 AACS.

**R 408.13122**  
**Source:** 1997 AACS.

**R 408.13123**  
**Source:** 1997 AACS.

**R 408.13124**  
**Source:** 1997 AACS.

**R 408.13125**  
**Source:** 1997 AACS.



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**R 408.13126**  
**Source:** 1997 AACS.

**R 408.13127**  
**Source:** 1997 AACS.

**R 408.13128**  
**Source:** 1997 AACS.

**R 408.13129**  
**Source:** 1997 AACS.

**R 408.13130**  
**Source:** 1997 AACS.

**R 408.13131**  
**Source:** 1997 AACS.

**R 408.13132**  
**Source:** 1997 AACS.

**R 408.13133**  
**Source:** 1997 AACS.

**R 408.13134**  
**Source:** 1997 AACS.

**R 408.13135**  
**Source:** 1997 AACS.

**PART 32. HEAD PROTECTION EQUIPMENT**

**R 408.13201**  
**Source:** 1997 AACS.

**R 408.13203**  
**Source:** 1997 AACS.

**R 408.13205**  
**Source:** 1997 AACS.

**R 408.13211**  
**Source:** 1997 AACS.

**R 408.13221**  
**Source:** 1997 AACS.

**R 408.13222**  
**Source:** 1997 AACS.

**R 408.13231**  
**Source:** 1997 AACS.

**R 408.13241**  
**Source:** 1997 AACS.

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**PART 33. PERSONAL PROTECTIVE EQUIPMENT**

**R 408.13301**  
Source: 2018 AACS.

**R 408.13301a**  
Source: 2018 AACS.

**R 408.13302**  
Source: 2018 AACS.

**R 408.13303**  
Source: 2018 AACS.

**R 408.13304**  
Source: 2016 AACS.

**R 408.13305**  
Source: 2018 AACS.

**R 408.13306**  
Source: 2018 AACS.

**R 408.13308**  
Source: 2014 AACS.

**R 408.13309**  
Source: 2014 AACS.

**R 408.13310**  
Source: 2014 AACS.

**R 408.13310a**  
Source: 2014 AACS.

**R 408.13311**  
Source: 2018 AACS.

**R 408.13312**  
Source: 2014 AACS.

**R 408.13312a**  
Source: 2014 AACS.

**R 408.13313**  
Source: 1983 AACS.

**R 408.13320**  
Source: 1983 AACS.

**R 408.13321**  
Source: 2016 AACS.

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**R 408.13322**  
Source: 2016 AACCS.

**R 408.13323**  
Source: 1983 AACCS.

**R 408.13324**  
Source: 2016 AACCS.

**R 408.13325**  
Source: 2018 AACCS.

**R 408.13327**  
Source: 2016 AACCS.

**R 408.13329**  
Source: 2018 AACCS.

**R 408.13330**  
Source: 2016 AACCS.

**R 408.13332**  
Source: 1983 AACCS.

**R 408.13340**  
Source: 1983 AACCS.

**R 408.13342**  
Source: 2016 AACCS.

**R 408.13343**  
Source: 1983 AACCS.

**R 408.13344**  
Source: 2018 AACCS.

**R 408.13345**  
Source: 2016 AACCS.

**R 408.13346**  
Source: 2016 AACCS.

**R 408.13347**  
Source: 2016 AACCS.

**R 408.13350**  
Source: 1997 AACCS.

**R 408.13352**  
Source: 2016 AACCS.

**R 408.13353**  
Source: 2016 AACCS.

**R 408.13355**  
Source: 2018 AACCS.

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- R 408.13356**  
Source: 1983 AACS.
- R 408.13357**  
Source: 1983 AACS.
- R 408.13359**  
Source: 1983 AACS.
- R 408.13360**  
Source: 2016 AACS.
- R 408.13362**  
Source: 2016 AACS.
- R 408.13363**  
Source: 1983 AACS.
- R 408.13364**  
Source: 1983 AACS.
- R 408.13366**  
Source: 2016 AACS.
- R 408.13367**  
Source: 2018 AACS.
- R 408.13369**  
Source: 2014 AACS.
- R 408.13370**  
Source: 2014 AACS.
- R 408.13372**  
Source: 2014 AACS.
- R 408.13375**  
Source: 2016 AACS.
- R 408.13376**  
Source: 2014 AACS.
- R 408.13378**  
Source: 2014 AACS.
- R 408.13383**  
Source: 2014 AACS.
- R 408.13384**  
Source: 1983 AACS.
- R 408.13385**  
Source: 2015 AACS.
- R 408.13386**  
Source: 2014 AACS.

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**R 408.13387**  
Source: 2018 AACCS.

**R 408.13387a**  
Source: 2015 AACCS.

**R 408.13388**  
Source: 2015 AACCS.

**R 408.13389**  
Source: 2016 AACCS.

**R 408.13390**  
Source: 2018 AACCS.

**R 408.13392**  
Source: 2014 AACCS.

**R 408.13393**  
Source: 2014 AACCS.

**R 408.13394**  
Source: 2014 AACCS.

**R 408.13395a**  
Source: 2018 AACCS.

**R 408.13395b**  
Source: 2018 AACCS.

**R 408.13395c**  
Source: 2018 AACCS.

**R 408.13395d**  
Source: 2018 AACCS.

**R 408.13395e**  
Source: 2018 AACCS.

**R 408.13395f**  
Source: 2018 AACCS.

**R 408.13395g**  
Source: 2018 AACCS.

**R 408.13398**  
Source: 2014 AACCS.

**R 408.13501**  
Source: 1997 AACCS.

**R 408.13503**  
Source: 1997 AACCS.

**R 408.13504**  
Source: 1997 AACCS.

**R 408.13505**

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Source: 1997 AACs.

**R 408.13506**

Source: 1997 AACs.

**R 408.13508**

Source: 1997 AACs.

**R 408.13511**

Source: 1997 AACs.

**R 408.13512**

Source: 1997 AACs.

**R 408.13513**

Source: 1997 AACs.

**R 408.13514**

Source: 1997 AACs.

**R 408.13521**

Source: 1997 AACs.

**R 408.13522**

Source: 1997 AACs.

**R 408.13523**

Source: 1997 AACs.

**R 408.13524**

Source: 1997 AACs.

**R 408.13525**

Source: 1997 AACs.

**R 408.13526**

Source: 1997 AACs.

**R 408.13528**

Source: 1997 AACs.

**R 408.13530**

Source: 1997 AACs.

**R 408.13531**

Source: 1997 AACs.

**R 408.13533**

Source: 1997 AACs.

**R 408.13541**

Source: 1997 AACs.

**R 408.13542**

Source: 1997 AACs.

**R 408.13543**

Source: 1997 AACs.

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- R 408.13544**  
Source: 1997 AACCS.
- R 408.13545**  
Source: 1997 AACCS.
- R 408.13546**  
Source: 1997 AACCS.
- R 408.13547**  
Source: 1997 AACCS.
- R 408.13551**  
Source: 1997 AACCS.
- R 408.13552**  
Source: 1997 AACCS.
- R 408.13553**  
Source: 1997 AACCS.
- R 408.13555**  
Source: 1997 AACCS.
- R 408.13556**  
Source: 1997 AACCS.
- R 408.13557**  
Source: 1997 AACCS.
- R 408.13559**  
Source: 1997 AACCS.
- R 408.13560**  
Source: 1997 AACCS.
- R 408.13562**  
Source: 1997 AACCS.
- R 408.13563**  
Source: 1997 AACCS.
- R 408.13564**  
Source: 1997 AACCS.
- R 408.13566**  
Source: 1997 AACCS.
- R 408.13567**  
Source: 1997 AACCS.
- R 408.13569**  
Source: 1997 AACCS.

**PART 37. ACCIDENT PREVENTION SIGNS AND TAGS**

**TAGS**

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**R 408.13701**  
Source: 2014 AACS.

**R 408.13702**  
Source: 1979 AC.

**R 408.13703**  
Source: 2014 AACS.

**R 408.13704**  
Source: 2014 AACS.

**R 408.13705**  
Source: 2014 AACS.

**R 408.13706**  
Source: 1979 AC.

**R 408.13707**  
Source: 2014 AACS.

**R 408.13708**  
Source: 1983 AACS.

**R 408.13709**  
Source: 1979 AC.

**R 408.13711**  
Source: 2014 AACS.

**R 408.13713**  
Source: 1983 AACS.

**R 408.13714**  
Source: 2014 AACS.

**R 408.13715**  
Source: 1983 AACS.

**R 408.13716**  
Source: 1983 AACS.

**R 408.13717**  
Source: 1997 AACS.

**R 408.13718**  
Source: 1997 AACS.

**R 408.13721**  
Source: 2014 AACS.

**R 408.13722**  
Source: 1997 AACS.

**R 408.13723**  
Source: 2014 AACS.



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**R 408.13724**

Source: 2014 AACCS.

**R 408.13731**

Source: 2014 AACCS.

**R 408.13731a**

Source: 2014 AACCS.

**R 408.13732**

Source: 1983 AACCS.

**R 408.13733**

Source: 2014 AACCS.

**R 408.13734**

Source: 2014 AACCS.

**R 408.13734a**

Source: 2014 AACCS.

**R 408.13735**

Source: 1983 AACCS.

**R 408.13736**

Source: 1997 AACCS.

**R 408.13737**

Source: 2014 AACCS.

**R 408.13738**

Source: 2014 AACCS.

**Rule 4501**

Source: 2014 AACCS.

**PART 38. HAND AND PORTABLE POWERED TOOLS**

**R 408.13801**

Source: 1979 AC.

**R 408.13802**

Source: 2013 AACCS.

**R 408.13804**

Source: 1979 AC.

**R 408.13805**

Source: 1979 AC.

**R 408.13806**

Source: 1979 AC.

**R 408.13807**

Source: 1979 AC.

**R 408.13808**

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**Source:** 1979 AC.

**R 408.13811**

**Source:** 2013 AACCS.

**R 408.13812**

**Source:** 2013 AACCS.

**R 408.13821**

**Source:** 1983 AACCS.

**R 408.13822**

**Source:** 2013 AACCS.

**R 408.13823**

**Source:** 1983 AACCS.

**R 408.13824**

**Source:** 1979 AC.

**R 408.13831**

**Source:** 1979 AC.

**R 408.13832**

**Source:** 1997 AACCS.

**R 408.13833**

**Source:** 1979 AC.

**R 408.13834**

**Source:** 1979 AC.

**R 408.13835**

**Source:** 1979 AC.

**R 408.13836**

**Source:** 1979 AC.

**R 408.13838**

**Source:** 1979 AC.

**R 408.13839**

**Source:** 1979 AC.

**R 408.13840**

**Source:** 1979 AC.

**R 408.13841**

**Source:** 1979 AC.

**R 408.13843**

**Source:** 1979 AC.

**R 408.13844**

**Source:** 1979 AC.

**R 408.13845**

**Source:** 1979 AC.

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**R 408.13846**

Source: 1979 AC.

**R 408.13847**

Source: 2013 AACS.

**R 408.13861**

Source: 1983 AACS.

**R 408.13863**

Source: 1979 AC.

**R 408.13864**

Source: 1979 AC.

**R 408.13865**

Source: 2013 AACS.

**R 408.13866**

Source: 1979 AC.

**R 408.13871**

Source: 2013 AACS.

**R 408.13872**

Source: 1983 AACS.

**R 408.13873**

Source: 1983 AACS.

**R 408.13874**

Source: 1983 AACS.

**R 408.13875**

Source: 1983 AACS.

**R 408.13876**

Source: 1997 AACS.

**R 408.13881**

Source: 2013 AACS.

**R 408.13882**

Source: 1993 AACS.

**PART 39. DESIGN SAFETY STANDARDS FOR ELECTRICAL SYSTEMS**

**R 408.13901**

Source: 2015 AACS.

**R 408.13902**

Source: 2015 AACS.

**R 408.13905**

Source: 2015 AACS.

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**PART 40. SAFETY-RELATED WORK PRACTICES**

**R 408.14001**  
Source: 2018 AACS.

**R 408.14001a**  
Source: 2018 AACS.

**R 408.14001b**  
Source: 2018 AACS.

**R 408.14002**  
Source: 2018 AACS.

**R 408.14003**  
Source: 2018 AACS.

**R 408.14004**  
Source: 2018 AACS.

**R 408.14005**  
Source: 2018 AACS.

**R 408.14006**  
Source: 2018 AACS.

**R 408.14007**  
Source: 2018 AACS.

**R 408.14008**  
Source: 2018 AACS.

**R 408.14009**  
Source: 2018 AACS.

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**PART 42. FORGING**

**GENERAL PROVISIONS**

**R 408.14201**  
Source: 1979 AC.

**R 408.14203**  
Source: 1979 AC.

**R 408.14204**  
Source: 1989 AACS.

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- R 408.14205**  
Source: 1979 AC.
- R 408.14207**  
Source: 1979 AC.
- R 408.14208**  
Source: 1979 AC.
- R 408.14221**  
Source: 1997 AACS.
- R 408.14222**  
Source: 1979 AC.
- R 408.14223**  
Source: 1979 AC.
- R 408.14224**  
Source: 1979 AC.
- R 408.14225**  
Source: 1997 AACS.
- R 408.14226**  
Source: 1979 AC.
- R 408.14227**  
Source: 1979 AC.
- R 408.14231**  
Source: 2013 AACS.
- R 408.14232**  
Source: 1989 AACS.
- R 408.14241**  
Source: 1979 AC.
- R 408.14242**  
Source: 1979 AC.
- R 408.14243**  
Source: 1979 AC.
- R 408.14244**  
Source: 1979 AC.
- R 408.14245**  
Source: 1979 AC.
- R 408.14246**  
Source: 2013 AACS.
- R 408.14247**  
Source: 1979 AC.
- R 408.14248**  
Source: 1979 AC.

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**R 408.14249**  
Source: 2019 AACS.

**R 408.14251**  
Source: 1979 AC.

**R 408.14252**  
Source: 1979 AC.

**R 408.14261**  
Source: 1979 AC.

**R 408.14263**  
Source: 2013 AACS.

**R 408.14265**  
Source: 1979 AC.

**R 408.14267**  
Source: 2013 AACS.

**R 408.14268**  
Source: 1979 AC.

**R 408.14269**  
Source: 2013 AACS.

**R 408.14271**  
Source: 1979 AC.

**R 408.14273**  
Source: 2013 AACS.

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**PART 44. FOUNDRIES**

**R 408.14401**  
Source: 1979 AC.

**R 408.14405**  
Source: 1979 AC.

**R 408.14406**  
Source: 1979 AC.

**R 408.14407**  
Source: 1979 AC.

**R 408.14408**  
Source: 1979 AC.

**R 408.14409**

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**Source:** 1979 AC.

**R 408.14421**

**Source:** 1988 AACS.

**R 408.14423**

**Source:** 1997 AACS.

**R 408.14425**

**Source:** 1997 AACS.

**R 408.14426**

**Source:** 1997 AACS.

**R 408.14427**

**Source:** 1997 AACS.

**R 408.14431**

**Source:** 1997 AACS.

**R 408.14433**

**Source:** 2019 AACS.

**R 408.14434**

**Source:** 1979 AC.

**R 408.14436**

**Source:** 2019 AACS.

**R 408.14438**

**Source:** 1997 AACS.

**R 408.14439**

**Source:** 1979 AC.

**R 408.14441**

**Source:** 1979 AC.

**R 408.14443**

**Source:** 1979 AC.

**R 408.14445**

**Source:** 1979 AC.

**R 408.14447**

**Source:** 1997 AACS.

**R 408.14448**

**Source:** 1979 AC.

**R 408.14451**

**Source:** 2013 AACS.

**R 408.14453**

**Source:** 1979 AC.

**R 408.14455**

**Source:** 1979 AC.

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- R 408.14457**  
Source: 1979 AC.
- R 408.14461**  
Source: 1988 AACCS.
- R 408.14463**  
Source: 1988 AACCS.
- R 408.14465**  
Source: 2019 AACCS.
- R 408.14466**  
Source: 1988 AACCS.
- R 408.14468**  
Source: 1979 AC.
- R 408.14471**  
Source: 1988 AACCS.
- R 408.14473**  
Source: 1979 AC.
- R 408.14474**  
Source: 1997 AACCS.
- R 408.14475**  
Source: 1979 AC.
- R 408.14476**  
Source: 2013 AACCS.
- R 408.14477**  
Source: 1997 AACCS.
- R 408.14478**  
Source: 1988 AACCS.
- R 408.14479**  
Source: 1997 AACCS.
- R 408.14481**  
Source: 1997 AACCS.
- R 408.14483**  
Source: 1997 AACCS.
- R 408.14485**  
Source: 1997 AACCS.
- R 408.14486**  
Source: 1997 AACCS.
- R 408.14488**  
Source: 1988 AACCS.
- R 408.14491**



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**Source:** 1979 AC.

**R 408.14492**

**Source:** 1988 AACCS.

**R 408.14493**

**Source:** 2019 AACCS.

**R 408.14494**

**Source:** 1997 AACCS.

**R 408.14495**

**Source:** 1979 AC.

**R 408.14496**

**Source:** 1997 AACCS.

**R 408.14497**

**Source:** 1979 AC.

**R 408.14498**

**Source:** 1979 AC.

**PART 45. DIE CASTING**

**R 408.14501**

**Source:** 1979 AC.

**R 408.14502**

**Source:** 2015 AACCS.

**R 408.14503**

**Source:** 1979 AC.

**R 408.14504**

**Source:** 1979 AC.

**R 408.14505**

**Source:** 1979 AC.

**R 408.14507**

**Source:** 2013 AACCS.

**R 408.14508**

**Source:** 1979 AC.

**R 408.14511**

**Source:** 2015 AACCS.

**R 408.14513**

**Source:** 1979 AC.

**R 408.14515**

**Source:** 1997 AACCS.

**R 408.14517**

**Source:** 1997 AACCS.

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**EQUIPMENT INSTALLATION AND MAINTENANCE**

**R 408.14521**

Source: 2013 AACS.

**R 408.14522**

Source: 2015 AACS.

**R 408.14523**

Source: 1979 AC.

**R 408.14525**

Source: 1979 AC.

**R 408.14527**

Source: 2015 AACS.

**R 408.14533**

Source: 1979 AC.

**R 408.14535**

Source: 2013 AACS.

**R 408.14541**

Source: 1979 AC.

**R 408.14543**

Source: 1979 AC.

**R 408.14544**

Source: 1979 AC.

**R 408.14545**

Source: 1979 AC.

**R 408.14551**

Source: 1979 AC.

**R 408.14552**

Source: 1979 AC.

**R 408.14553**

Source: 1979 AC.

**R 408.14554**

Source: 1979 AC.

**R 408.14555**

Source: 2015 AACS.

**R 408.14561**

Source: 1979 AC.

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**PART 49. SLINGS**

- R 408.14901**  
Source: 2021 AACS.
- R 408.14902**  
Source: 2021 AACS.
- R 408.14903**  
Source: 1979 AC.
- R 408.14904**  
Source: 2014 AACS.
- R 408.14905**  
Source: 2014 AACS.
- R 408.14906**  
Source: 2014 AACS.
- R 408.14907**  
Source: 1979 AC.
- R 408.14908**  
Source: 2014 AACS.
- R 408.14911**  
Source: 2014 AACS.
- R 408.14912**  
Source: 1979 AC.
- R 408.14913**  
Source: 1998-2000 AACS.
- R 408.14921**  
Source: 2014 AACS.
- R 408.14922**  
Source: 2014 AACS.
- R 408.14923**  
Source: 2021 AACS.
- R 408.14924**  
Source: 2014 AACS.
- R 408.14925**  
Source: 2014 AACS.
- R 408.14926**  
Source: 2014 AACS.

**WIRE ROPE SLINGS**

- R 408.14931**

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**Source:** 2014 AACCS.

**R 408.14932**

**Source:** 2014 AACCS.

**R 408.14933**

**Source:** 2014 AACCS.

**R 408.14934**

**Source:** 2014 AACCS.

**R 408.14935**

**Source:** 2014 AACCS.

**METAL MESH SLINGS**

**R 408.14941**

**Source:** 2014 AACCS.

**R 408.14942**

**Source:** 2014 AACCS.

**R 408.14943**

**Source:** 2014 AACCS.

**R 408.14944**

**Source:** 2014 AACCS.

**R 408.14945**

**Source:** 2014 AACCS.

**NATURAL AND SYNTHETIC FIBER ROPE SLINGS**

**R 408.14951**

**Source:** 2014 AACCS.

**R 408.14952**

**Source:** 2014 AACCS.

**R 408.14953**

**Source:** 2014 AACCS.

**R 408.14954**

**Source:** 2014 AACCS.

**SYNTHETIC WEB SLINGS**

**R 408.14961**

**Source:** 2014 AACCS.

**R 408.14962**

**Source:** 2014 AACCS.

**R 408.14963**

**Source:** 2014 AACCS.

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**R 408.14964**

Source: 2014 AACS.

**R 408.14965**

Source: 2014 AACS.

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**PART 50. TELECOMMUNICATIONS**

**R 408.15001**

Source: 2018 AACS.

**R 408.15002**

Source: 2015 AACS.

**R 408.15003**

Source: 2018 AACS.

**R 408.15004**

Source: 2018 AACS.

**R 408.15005**

Source: 1979 AC.

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**PART 51. LOGGING**

**GENERAL PROVISIONS**

**R 408.15101**

Source: 1996 AACS.

**R 408.15102**

Source: 2017 AACS.

**R 408.15106**

Source: 1996 AACS.

**R 408.15107**

Source: 1996 AACS.

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**R 408.15108**  
Source: 1996 AACS.

**EMPLOYER-EMPLOYEE RESPONSIBILITIES**

**R 408.15111**  
Source: 2017 AACS.

**R 408.15112**  
Source: 2014 AACS.

**R 408.15113**  
Source: 1989 AACS.

**R 408.15114**  
Source: 2017 AACS.

**R 408.15116**  
Source: 1989 AACS.

**R 408.15117**  
Source: 2017 AACS.

**R 408.15117a**  
Source: 2017 AACS.

**R 408.15117b**  
Source: 2017 AACS.

**R 408.15118**  
Source: 2014 AACS.

**R 408.15119**  
Source: 2014 AACS.

**PROTECTIVE CLOTHING**

**R 408.15120**  
Source: 2017 AACS.

**R 408.15121**  
Source: 1979 AC.

**R 408.15122**  
Source: 2014 AACS.

**R 408.15123**  
Source: 2014 AACS.

**R 408.15124**  
Source: 1996 AACS.

**R 408.15125**  
Source: 2017 AACS.

**R 408.15126**  
Source: 1974 AC.

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**R 408.15127**  
Source: 2017 AACCS.

**PROTECTIVE EQUIPMENT**

**HAND-HELD CHAIN SAWS**

**R 408.15130**  
Source: 2017 AACCS.

**R 408.15131**  
Source: 2017 AACCS.

**R 408.15132**  
Source: 1997 AACCS.

**R 408.15133**  
Source: 1997 AACCS.

**R 408.15134**  
Source: 1997 AACCS.

**R 408.15135**  
Source: 1997 AACCS.

**R 408.15136**  
Source: 2014 AACCS.

**OTHER SAWS**

**R 408.15137**  
Source: 1989 AACCS.

**R 408.15138**  
Source: 1989 AACCS.

**LOGGING EQUIPMENT**

**R 408.15141**  
Source: 1979 AC.

**R 408.15142**  
Source: 1996 AACCS.

**R 408.15143**  
Source: 1989 AACCS.

**R 408.15144**  
Source: 2017 AACCS.

**R 408.15145**  
Source: 1989 AACCS.

**R 408.15146**  
Source: 2017 AACCS.

**R 408.15146a**

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Source: 2017 AACCS.

**R 408.15146b**

Source: 2017 AACCS.

**R 408.15147**

Source: 1997 AACCS.

**R 408.15148**

Source: 2017 AACCS.

**R 408.15149**

Source: 2014 AACCS.

**R 408.15150**

Source: 2017 AACCS.

**FELLING, LIMBING, BUCKING, AND SKIDDING**

**R 408.15151**

Source: 1996 AACCS.

**R 408.15152**

Source: 1979 AC.

**R 408.15153**

Source: 1989 AACCS.

**R 408.15154**

Source: 1989 AACCS.

**R 408.15155**

Source: 1996 AACCS.

**R 408.15156**

Source: 1996 AACCS.

**R 408.15157**

Source: 1996 AACCS.

**R 408.15158**

Source: 1996 AACCS.

**R 408.15159**

Source: 1997 AACCS.

**LOADING AND DECKING**

**R 408.15161**

Source: 1997 AACCS.

**R 408.15162**

Source: 1997 AACCS.

**R 408.15163**

Source: 1997 AACCS.

**R 408.15164**



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**Source:** 1997 AACS.

**R 408.15165**

**Source:** 2017 AACS.

**R 408.15166**

**Source:** 1979 AC.

**R 408.15167**

**Source:** 2014 AACS.

**TRUCK EQUIPMENT AND OPERATION**

**R 408.15171**

**Source:** 1997 AACS.

**R 408.15172**

**Source:** 1979 AC.

**R 408.15173**

**Source:** 1997 AACS.

**R 408.15174**

**Source:** 1997 AACS.

**R 408.15175**

**Source:** 1996 AACS.

**R 408.15180**

**Source:** 1989 AACS.

**R 408.15181**

**Source:** 1989 AACS.

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**PART 52. SAWMILLS**

**R 408.15201**

**Source:** 2018 AACS.

**R 408.15202**

**Source:** 2014 AACS.

**R 408.15203**

**Source:** 1989 AACS.

**R 408.15204**

**Source:** 1989 AACS.

**R 408.15205**

**Source:** 2014 AACS.

**R 408.15206**

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**Source:** 1979 AC.

**R 408.15207**

**Source:** 1989 AACCS.

**R 408.15208**

**Source:** 1979 AC.

**R 408.15209**

**Source:** 2018 AACCS.

**R 408.15211**

**Source:** 2018 AACCS.

**R 408.15212**

**Source:** 1989 AACCS.

**R 408.15212a**

**Source:** 2018 AACCS.

**R 408.15213**

**Source:** 1979 AC.

**R 408.15221**

**Source:** 2014 AACCS.

**R 408.15222**

**Source:** 2018 AACCS.

**R 408.15223**

**Source:** 2014 AACCS.

**R 408.15224**

**Source:** 1979 AC.

**R 408.15225**

**Source:** 2018 AACCS.

**R 408.15226**

**Source:** 2018 AACCS.

**R 408.15227**

**Source:** 1979 AC.

**R 408.15228**

**Source:** 1979 AC.

**R 408.15229**

**Source:** 2018 AACCS.

**R 408.15230**

**Source:** 1979 AC.

**R 408.15231**

**Source:** 2018 AACCS.

**R 408.15232**

**Source:** 1989 AACCS.

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**R 408.15233**  
Source: 1989 AACCS.

**R 408.15234**  
Source: 1989 AACCS.

**R 408.15241**  
Source: 1989 AACCS.

**R 408.15242**  
Source: 1989 AACCS.

**R 408.15243**  
Source: 2014 AACCS.

**R 408.15244**  
Source: 2014 AACCS.

**R 408.15245**  
Source: 1979 AC.

**R 408.15246**  
Source: 1989 AACCS.

**R 408.15247**  
Source: 1989 AACCS.

**R 408.15251**  
Source: 2018 AACCS.

**R 408.15252**  
Source: 2014 AACCS.

**R 408.15253**  
Source: 1979 AC.

**R 408.15254**  
Source: 2018 AACCS.

**R 408.15261**  
Source: 2018 AACCS.

**R 408.15262**  
Source: 1989 AACCS.

**R 408.15271**  
Source: 2018 AACCS.

**R 408.15272**  
Source: 1979 AC.

**R 408.15273**  
Source: 2018 AACCS.

**R 408.15274**  
Source: 1983 AACCS.

**R 408.15275**

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**Source:** 2018 AACs.

**R 408.15276**

**Source:** 1979 AC.

**R 408.15277**

**Source:** 1989 AACs.

**R 408.15280**

**Source:** 2014 AACs.

**R 408.15282**

**Source:** 2014 AACs.

**R 408.15284**

**Source:** 2014 AACs.

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**PART 53. TREE TRIMMING AND REMOVAL**

**R 408.15301**

**Source:** 1979 AC.

**R 408.15303**

**Source:** 1979 AC.

**R 408.15304**

**Source:** 1979 AC.

**R 408.15311**

**Source:** 1979 AC.

**R 408.15312**

**Source:** 1979 AC.

**R 408.15313**

**Source:** 1983 AACs.

**R 408.15314**

**Source:** 1979 AC.

**R 408.15315**

**Source:** 1979 AC.

**R 408.15321**

**Source:** 1979 AC.

**WORK PRACTICES**

**R 408.15331**

**Source:** 1979 AC.

**R 408.15332**

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Source: 1979 AC.

**R 408.15333**

Source: 1979 AC.

**R 408.15334**

Source: 1979 AC.

**R 408.15335**

Source: 1979 AC.

**R 408.15336**

Source: 1979 AC.

**R 408.15337**

Source: 1979 AC.

**R 408.15338**

Source: 1979 AC.

**TOOLS AND EQUIPMENT**

**R 408.15341**

Source: 1979 AC.

**R 408.15342**

Source: 1979 AC.

**R 408.15343**

Source: 1979 AC.

**R 408.15344**

Source: 2019 AACS.

**R 408.15345**

Source: 1979 AC.

**R 408.15346**

Source: 1979 AC.

**R 408.15347**

Source: 1979 AC.

**R 408.15348**

Source: 1979 AC.

**HAND AND PORTABLE TOOLS**

**R 408.15351**

Source: 1979 AC.

**R 408.15352**

Source: 1979 AC.

**R 408.15353**

Source: 1979 AC.

**R 408.15354**

Source: 1979 AC.

**R 408.15355**

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Source: 2019 AACS.

**R 408.15356**

Source: 1979 AC.

**R 408.15357**

Source: 1979 AC.

**R 408.15358**

Source: 1979 AC.

**R 408.15359**

Source: 1979 AC.

**R 408.15360**

Source: 1979 AC.

**R 408.15361**

Source: 1979 AC.

**R 408.15362**

Source: 2019 AACS.

**R 408.15363**

Source: 1979 AC.

**PART 54. POWERED GROUNDSKEEPING EQUIPMENT**

**R 408.15401**

Source: 1979 AC.

**R 408.15403**

Source: 1979 AC.

**R 408.15404**

Source: 1979 AC.

**R 408.15405**

Source: 1979 AC.

**R 408.15406**

Source: 1979 AC.

**R 408.15411**

Source: 1983 AACS.

**R 408.15412**

Source: 1979 AC.

**R 408.15413**

Source: 1983 AACS.

**R 408.15414**

Source: 1979 AC.

**R 408.15415**

Source: 1983 AACS.

**R 408.15416**

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**Source:** 1983 AACS.

**R 408.15421**

**Source:** 1997 AACS.

**R 408.15422**

**Source:** 1983 AACS.

**R 408.15423**

**Source:** 1997 AACS.

**R 408.15424**

**Source:** 1997 AACS.

**R 408.15425**

**Source:** 1997 AACS.

**R 408.15426**

**Source:** 1979 AC.

**R 408.15427**

**Source:** 1979 AC.

**R 408.15428**

**Source:** 1979 AC.

**R 408.15429**

**Source:** 1983 AACS.

**R 408.15431**

**Source:** 1997 AACS.

**R 408.15442**

**Source:** 1979 AC.

**R 408.15443**

**Source:** 1979 AC.

**R 408.15444**

**Source:** 1979 AC.

**R 408.15451**

**Source:** 1979 AC.

**R 408.15452**

**Source:** 1983 AACS.

**R 408.15461**

**Source:** 1983 AACS.

**PART 55. EXPLOSIVES**

**R 408.15501**

**Source:** 2015 AACS.

**PART 56. STORAGE AND HANDLING OF LIQUEFIED PETROLEUM GASES**

**R 408.15601**

**Source:** 2015 AACS.

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**PART 57. OIL AND GAS DRILLING AND SERVICING OPERATIONS**

**R 408.15701**  
Source: 1989 AACCS.

**R 408.15703**  
Source: 1989 AACCS.

**R 408.15704**  
Source: 1989 AACCS.

**R 408.15705**  
Source: 1989 AACCS.

**R 408.15706**  
Source: 1989 AACCS.

**R 408.15707**  
Source: 1989 AACCS.

**R 408.15708**  
Source: 1989 AACCS.

**R 408.15711**  
Source: 1989 AACCS.

**R 408.15712**  
Source: 2013 AACCS.

**R 408.15713**  
Source: 2013 AACCS.

**R 408.15714**  
Source: 1979 AC.

**R 408.15715**  
Source: 1989 AACCS.

**R 408.15716**  
Source: 1979 AC.

**R 408.15717**  
Source: 2013 AACCS.

**R 408.15718**  
Source: 2019 AACCS.

**R 408.15719**  
Source: 1989 AACCS.

**R 408.15721**



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**Source:** 2013 AACS.

**R 408.15722**

**Source:** 1989 AACS.

**R 408.15723**

**Source:** 2013 AACS.

**R 408.15725**

**Source:** 2013 AACS.

**R 408.15726**

**Source:** 2013 AACS.

**EQUIPMENT**

**R 408.15731**

**Source:** 1989 AACS.

**R 408.15732**

**Source:** 1989 AACS.

**R 408.15733**

**Source:** 1979 AC.

**R 408.15734**

**Source:** 1989 AACS.

**R 408.15735**

**Source:** 1979 AC.

**R 408.15736**

**Source:** 1989 AACS.

**R 408.15737**

**Source:** 1994 AACS.

**R 408.15738**

**Source:** 1979 AC.

**R 408.15739**

**Source:** 2013 AACS.

**R 408.15740**

**Source:** 1979 AC.

**R 408.15741**

**Source:** 1989 AACS.

**R 408.15742**

**Source:** 1979 AC.

**R 408.15743**

**Source:** 1989 AACS.

**R 408.15744**

**Source:** 1989 AACS.

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**R 408.15745**  
Source: 1989 AACCS.

**R 408.15751**  
Source: 1979 AC.

**R 408.15752**  
Source: 1979 AC.

**R 408.15753**  
Source: 1989 AACCS.

**R 408.15754**  
Source: 1989 AACCS.

**R 408.15755**  
Source: 1997 AACCS.

**R 408.15756**  
Source: 1989 AACCS.

**R 408.15757**  
Source: 1989 AACCS.

**OTHER SPECIAL SERVICE OPERATIONS**

**R 408.15761**  
Source: 1989 AACCS.

**R 408.15762**  
Source: 1989 AACCS.

**R 408.15763**  
Source: 1997 AACCS.

**R 408.15764**  
Source: 1989 AACCS.

**R 408.15765**  
Source: 1997 AACCS.

**R 408.15766**  
Source: 1997 AACCS.

**R 408.15767**  
Source: 1997 AACCS.

**R 408.15768**  
Source: 1989 AACCS.

**R 408.15769**  
Source: 1997 AACCS.

**R 408.15770**  
Source: 1979 AC.

**R 408.15771**  
Source: 1989 AACCS.

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**PART 58. AERIAL WORK PLATFORMS**

**R 408.15801**  
Source: 2018 AACCS.

**R 408.15802**  
Source: 2018 AACCS.

**R 408.15803**  
Source: 2018 AACCS.

**R 408.15804**  
Source: 2018 AACCS.

**R 408.15805**  
Source: 2018 AACCS.

**R 408.15810**  
Source: 2018 AACCS.

**R 408.15811**  
Source: 2013 AACCS.

**R 408.15812**  
Source: 2018 AACCS.

**R 408.15815**  
Source: 2018 AACCS.

**R 408.15817**  
Source: 2018 AACCS.

**R 408.15821**  
Source: 2013 AACCS.

**R 408.15823**  
Source: 2008 AACCS.

**R 408.15824**  
Source: 2008 AACCS.

**R 408.15825**  
Source: 2018 AACCS.

**R 408.15830**  
Source: 2008 AACCS.

**R 408.15831**  
Source: 2018 AACCS.

**R 408.15832**  
Source: 2018 AACCS.

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**R 408.15833**  
Source: 2018 AACS.

**R 408.15836**  
Source: 2018 AACS.

**R 408.15839**  
Source: 2018 AACS.

**R 408.15842**  
Source: 2018 AACS.

**PART 59. HELICOPTERS**

**R 408.15901**  
Source: 1979 AC.

**R 408.15903**  
Source: 2015 AACS.

**R 408.15911**  
Source: 2015 AACS.

**R 408.15914**  
Source: 1979 AC.

**R 408.15915**  
Source: 2015 AACS.

**R 408.15916**  
Source: 1979 AC.

**R 408.15921**  
Source: 1979 AC.

**R 408.15922**  
Source: 2015 AACS.

**R 408.15923**  
Source: 2015 AACS.

**R 408.15931**  
Source: 1979 AC.

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**PART 62. PLASTIC MOLDING**

**R 408.16201**  
Source: 1992 AACS.

**R 408.16202**  
Source: 2021 AACS.

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**R 408.16204**

Source: 2015 AACS.

**R 408.16205**

Source: 1979 AC.

**R 408.16206**

Source: 1992 AACS.

**R 408.16207**

Source: 2021 AACS.

**R 408.16208**

Source: 1979 AC.

**R 408.16211**

Source: 2021 AACS.

**R 408.16212**

Source: 1979 AC.

**R 408.16215**

Source: 1979 AC.

**R 408.16216**

Source: 1979 AC.

**R 408.16217**

Source: 2013 AACS

**EQUIPMENT INSTALLATION AND MAINTENANCE**

**R 408.16221**

Source: 1979 AC.

**R 408.16222**

Source: 2013 AACS.

**R 408.16223**

Source: 2021 AACS.

**R 408.16224**

Source: 1979 AC.

**R 408.16225**

Source: 1992 AACS.

**R 408.16226**

Source: 2021 AACS.

**R 408.16227**

Source: 2021 AACS.

**SPECIFIC EQUIPMENT**

**R 408.16231**

Source: 1992 AACS.

**R 408.16232**

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**Source:** 1992 AACS.

**R 408.16233**

**Source:** 1979 AC.

**R 408.16234**

**Source:** 2021 AACS.

**R 408.16235**

**Source:** 1992 AACS.

**R 408.16236**

**Source:** 2013 AACS.

**R 408.16237 R**

**Source:** 2019 AACS.

**R 408.16241**

**Source:** 1979 AC.

**R 408.16242**

**Source:** 1992 AACS.

**R 408.16243**

**Source:** 1992 AACS.

**R 408.16244**

**Source:** 1979 AC.

**R 408.16245**

**Source:** 1992 AACS.

**R 408.16246**

**Source:** 1992 AACS.

**R 408.16247**

**Source:** 1979 AC.

**R 408.16251**

**Source:** 2021 AACS.

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**PART 63. PULP, PAPER, AND PAPERBOARD MILLS**

**R 408.16301**

**Source:** 2018 AACS.

**R 408.16302**

**Source:** 2018 AACS.

**R 408.16303**

**Source:** 1979 AC.

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- R 408.16304**  
Source: 1979 AC.
- R 408.16305**  
Source: 1993 AACS.
- R 408.16306**  
Source: 1979 AC.
- R 408.16307**  
Source: 1979 AC.
- R 408.16308**  
Source: 1979 AC.
- R 408.16309**  
Source: 2018 AACS.
- R 408.16311**  
Source: 2018 AACS.
- R 408.16312**  
Source: 2018 AACS.
- R 408.16313**  
Source: 2018 AACS.
- R 408.16318**  
Source: 2018 AACS.
- R 408.16321**  
Source: 2018 AACS.
- R 408.16322**  
Source: 2018 AACS.
- R 408.16323**  
Source: 2018 AACS.
- R 408.16324**  
Source: 1979 AC.
- R 408.16325**  
Source: 2018 AACS.
- R 408.16326**  
Source: 1979 AC.
- R 408.16327**  
Source: 1979 AC.
- R 408.16328**  
Source: 1993 AACS.
- R 408.16331**  
Source: 2018 AACS.
- R 408.16332**  
Source: 1979 AC.

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**R 408.16333**  
Source: 2018 AACCS.

**R 408.16334**  
Source: 1979 AC.

**R 408.16335**  
Source: 2018 AACCS.

**R 408.16336**  
Source: 2014 AACCS.

**R 408.16337**  
Source: 2014 AACCS.

**R 408.16338**  
Source: 2018 AACCS.

**R 408.16339**  
Source: 1979 AC.

**R 408.16341**  
Source: 1979 AC.

**R 408.16342**  
Source: 1979 AC.

**R 408.16343**  
Source: 2018 AACCS.

**R 408.16344**  
Source: 2014 AACCS.

**R 408.16345**  
Source: 2018 AACCS.

**R 408.16346**  
Source: 2018 AACCS.

**R 408.16347**  
Source: 2018 AACCS.

**R 408.16348**  
Source: 1979 AC.

**R 408.16349**  
Source: 1979 AC.

**R 408.16350**  
Source: 2018 AACCS.

**R 408.16351**  
Source: 2018 AACCS.

**R 408.16352**  
Source: 2014 AACCS.



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**R 408.16353**  
Source: 2018 AACCS.

**R 408.16354**  
Source: 2018 AACCS.

**R 408.16355**  
Source: 1979 AC.

**R 408.16356**  
Source: 2018 AACCS.

**R 408.16357**  
Source: 1979 AC.

**R 408.16358**  
Source: 1979 AC.

**R 408.16359**  
Source: 1979 AC.

**R 408.16360**  
Source: 1979 AC.

**R 408.16361**  
Source: 2018 AACCS.

**R 408.16362**  
Source: 2018 AACCS.

**R 408.16363**  
Source: 1979 AC.

**R 408.16364**  
Source: 2018 AACCS.

**R 408.16371**  
Source: 1979 AC.

**R 408.16372**  
Source: 2018 AACCS.

**R 408.16374**  
Source: 1979 AC.

**R 408.16375**  
Source: 2018 AACCS.

**R 408.16376**  
Source: 1979 AC.

**R 408.16377**  
Source: 2018 AACCS.

**R 408.16378**  
Source: 1981 AACCS.

**R 408.16381**  
Source: 1979 AC.

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**R 408.16382**

Source: 1979 AC.

**R 408.16383**

Source: 1979 AC.

**R 408.16384**

Source: 1979 AC.

**R 408.16385**

Source: 2014 AACS.

**R 408.16386**

Source: 1979 AC.

**R 408.16387**

Source: 2018 AACS.

**R 408.16388**

Source: 1979 AC.

**R 408.16391**

Source: 1979 AC.

**R 408.16392**

Source: 2014 AACS.

**PART 65. MILLS AND CALENDERS FOR RUBBER AND PLASTIC**

**R 408.16511**

Source: 2013 AACS.

**R 408.16528**

Source: 2013 AACS.

**PART 69. COMPRESSED AIR AND GASES, EQUIPMENT, AND SYSTEMS**

**R 408.16901**

Source: 1998-2000 AACS.

**R 408.16902**

Source: 2012 AACS.

**PART 71. LAUNDRY AND DRY CLEANING MACHINERY AND OPERATIONS**

**R 408.17101**

Source: 1979 AC.

**R 408.17103**

Source: 1979 AC.

**R 408.17104**

Source: 1979 AC.

**R 408.17105**

Source: 1979 AC.

**R 408.17106**

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**Source:** 1979 AC.

**R 408.17107**

**Source:** 1979 AC.

**R 408.17111**

**Source:** 1983 AACS.

**R 408.17112**

**Source:** 1979 AC.

**R 408.17121**

**Source:** 1979 AC.

**R 408.17122**

**Source:** 1981 AACS.

**R 408.17123**

**Source:** 1997 AACS.

**R 408.17124**

**Source:** 1997 AACS.

**R 408.17125**

**Source:** 2013 AACS.

**R 408.17126**

**Source:** 1979 AC.

**R 408.17127**

**Source:** 1979 AC.

**R 408.17128**

**Source:** 1979 AC.

**R 408.17129**

**Source:** 1979 AC.

**R 408.17130**

**Source:** 1979 AC.

**R 408.17131**

**Source:** 1979 AC.

**R 408.17141**

**Source:** 1979 AC.

**R 408.17142**

**Source:** 1979 AC.

**R 408.17143**

**Source:** 1981 AACS.

**R 408.17144**

**Source:** 1979 AC.

**R 408.17145**

**Source:** 1979 AC.

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- R 408.17146**  
Source: 1979 AC.
- R 408.17147**  
Source: 1997 AACS.
- R 408.17148**  
Source: 1979 AC.
- R 408.17149**  
Source: 1979 AC.
- R 408.17150**  
Source: 1979 AC.
- R 408.17151**  
Source: 1979 AC.
- R 408.17152**  
Source: 1979 AC.
- R 408.17153**  
Source: 1979 AC.
- R 408.17154**  
Source: 1979 AC.
- R 408.17155**  
Source: 1979 AC.
- R 408.17156**  
Source: 1979 AC.
- R 408.17157**  
Source: 1979 AC.
- R 408.17158**  
Source: 1979 AC.
- R 408.17159**  
Source: 1979 AC.
- R 408.17160**  
Source: 1979 AC.
- R 408.17161**  
Source: 1979 AC.
- R 408.17162**  
Source: 1979 AC.
- R 408.17163**  
Source: 1979 AC.

**PART 72. AUTOMOTIVE SERVICE OPERATIONS**

- R 408.17201**  
Source: 1990 AACS.

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- R 408.17204**  
Source: 1979 AC.
- R 408.17205**  
Source: 1979 AC.
- R 408.17206**  
Source: 1990 AACS.
- R 408.17207**  
Source: 1979 AC.
- R 408.17211**  
Source: 2013 AACS.
- R 408.17212**  
Source: 2013 AACS.
- R 408.17213**  
Source: 2013 AACS.
- R 408.17221**  
Source: 1979 AC.
- R 408.17222**  
Source: 2013 AACS.
- R 408.17223**  
Source: 1979 AC.
- R 408.17224**  
Source: 1979 AC.
- R 408.17225**  
Source: 2013 AACS.
- R 408.17226**  
Source: 1979 AC.
- R 408.17227**  
Source: 2013 AACS.
- R 408.17232**  
Source: 1979 AC.
- R 408.17233**  
Source: 1979 AC.
- R 408.17234**  
Source: 1979 AC.
- R 408.17235**  
Source: 1993 AACS.
- R 408.17236**  
Source: 2013 AACS.

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**R 408.17237**

Source: 1990 AACS.

**R 408.17241**

Source: 1979 AC.

**R 408.17243**

Source: 1979 AC.

**R 408.17245**

Source: 1979 AC.

**R 408.17246**

Source: 1979 AC.

**R 408.17251**

Source: 2013 AACS.

**R 408.17252**

Source: 1979 AC.

**R 408.17253**

Source: 1990 AACS.

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**PART 73. FIRE BRIGADES**

**R 408.17301 Scope, adoption, and referenced standards.**

Rule 7301. (1) This standard is applicable to fire brigades, industrial fire departments, and private or contractual-type fire departments when established by an employer, and provides for the organization, training, and personal protective equipment to be used. This standard does not apply to airport crash rescue operations or forest firefighting operations.

(2) The following National Fire Protection Association (NFPA) standards are adopted by reference in these rules and are available from the National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9101, Quincy, Massachusetts, 02169-7471, or via the internet at the following website: [www.nfpa.org](http://www.nfpa.org), at a cost as of the time of adoption of these amendments, as stated in these rules:

(a) NFPA 1971: "Standard on Protective Ensembles for Structural Fire Fighting and Proximity Fire Fighting," 1997 edition. Cost: \$79.50.

(b) NFPA 1971: "Standard on Protective Ensembles for Structural Fire Fighting and Proximity Fire Fighting," 2013 edition. Cost: \$74.00.

(c) NFPA 1981: "Standard on Open-Circuit Self-Contained Breathing Apparatus (SCBA) for Emergency Services," 2007 edition. Cost: \$63.50.

(d) NFPA 1982: "Standard on Personal Alert Safety Systems (PASS)," 2007 edition. Cost: \$68.50.

(3) The standards adopted in these rules are also available for inspection at the Michigan Department of Labor and Economic Opportunity, MIOSHA Standards and FOIA Section, 530 W. Allegan Street, P.O. Box 30643, Lansing, Michigan, 48909-8143.

(4) Copies of the standards adopted in these rules may be obtained from the publisher or may be obtained from the Michigan Department of Labor and Economic Opportunity, MIOSHA Standards and FOIA Section, 530 W. Allegan Street, P.O. Box 30643, Lansing, Michigan, 48909-8143, at the cost charged in this rule, plus \$20.00 for shipping and handling.

History: 1984 AACS; 2023 MR 20, Eff. Oct. 23, 2023.

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**R 408.17302 Rescinded.**

History: 2015 AACCS; 2023 MR 20, Eff. Oct. 23, 2023.

**R 408.17303 Rescinded.**

History: 1984 AACCS; 1998-2000 AACCS; 2013 AACCS; 2023 MR 20, Eff. Oct. 23, 2023.

**R 408.17305 Definitions; E to I.**

Rule 7305. (1) "Education" means the process of imparting knowledge or skill through systemic instruction. Education does not require formal classroom instruction.

(2) "Fire brigade" means a private or industrial fire department consisting of an organized group of employees who are knowledgeable, trained, and skilled in at least basic firefighting operations.

(3) "Foam containing PFAS" means firefighting foam containing intentionally added perfluoroalkyl or polyfluoroalkyl substance.

(4) "Incipient stage fire" means a fire which is in the initial or beginning stage and which can be controlled or extinguished by portable fire extinguishers, class II standpipe, or small hose systems without the need for protective ensemble or breathing apparatus.

(5) "Interior structural firefighting" means the physical activity for fire suppression or rescue, or both, inside of buildings or structures involved in a fire situation beyond the incipient stage.

History: 1984 AACCS; 2023 MR 20, Eff. Oct. 23, 2023.

**R 408.17307 Definitions; P.**

Rule 7307 (1) "PFAS" means a perfluoroalkyl or polyfluoroalkyl substance.

(2) "Protective ensemble" means multiple elements of clothing and equipment designed to provide a degree of protection for employees from adverse exposures to the inherent risks of structural firefighting.

History: 1984 AACCS; 2023 MR 20, Eff. Oct. 23, 2023.

**R 408.17309 Definitions; S to T.**

Rule 7309. (1) "Small hose system" means a system of hose ranging in diameter from 5/8 " (1.6 cm) up to 1 1/2" (3.8 cm) which is for the use of employees and which provides a means for the control and extinguishment of incipient stage fires.

(2) "Structural firefighting" means activities of rescue, fire suppression, or property conservation inside or outside buildings, structures, equipment, vehicles, vessels, or like properties that are involved in a fire beyond the incipient stage.

(3) "Training" means the process of making proficient through instruction and hands-on practice in the operation of equipment that is expected to be used and in the performance of assigned duties.

History: 1984 AACCS; 2023 MR 20, Eff. Oct. 23, 2023.

**R 408.17310 Employer responsibilities.**

Rule 7310. (1) The employer having a fire brigade shall prepare and maintain a statement or written policy that establishes the existence of a fire brigade; and the basic organizational structure; the type, amount, and frequency of training to be provided to fire brigade members; the expected number of members in the fire brigade; and the functions that the fire brigade is to perform at the workplace. The statement or written policy shall be available for inspection by the director of the department of labor and economic opportunity or his or her authorized representative and by employees or his or her authorized representatives.

(2) The employer shall ensure that employees who are expected to do structural firefighting are physically capable of performing duties that may be assigned to them during emergencies. The employer shall not permit employees with known heart disease, epilepsy, or emphysema to participate in fire brigade emergency activities unless a physician's certificate of the employees' fitness to participate in such activities is provided.

(3) The employer shall provide training and education for all fire brigade members commensurate with those duties and functions that fire brigade members are expected to perform. Such training and education shall be provided to fire brigade members before they perform fire brigade emergency activities. Fire brigade leaders and instructors shall be provided with training and education that is more comprehensive than that provided to the general membership of the fire brigade. Training and education records must be maintained and be made available for inspection by the director of the department of labor and economic opportunity or his or her authorized representative and by an employee or his or her authorized representative.

(4) An employer shall ensure that training and education is conducted frequently enough to ensure that each

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member of the fire brigade is able to perform the member's assigned duties and functions satisfactorily and in a safe manner so as not to endanger fire brigade members or other employees. All fire brigade members shall be provided with training at least annually. In addition, fire brigade members who are expected to perform interior structural firefighting shall be provided with an education session or training at least quarterly.

(5) An employer shall inform fire brigade members about hazards, such as the storage and use of flammable liquids and gases, toxic chemicals, radioactive sources, and water reactive substances, to which they may be exposed during a fire and other emergencies. The fire brigade members shall also be advised of any changes that occur in relation to the hazards.

(6) An employer shall develop written procedures that describe the actions to be taken in situations involving hazards and shall include these written procedures in the training and education program. An employer shall make the procedures available for inspection by fire brigade members.

History: 1984 AACCS; 1998-2000 AACCS; 2013 AACCS; 2015 AACCS; 2023 MR 20, Eff. Oct. 23, 2023.

**R 408.17312 Firefighting equipment.**

Rule 7312. (1) The employer shall maintain and inspect, at least annually, firefighting equipment to ensure the safe operational condition of the equipment.

(2) Inspection records must be maintained for a minimum period of 24 months for firefighting equipment.

(3) The employer shall ensure that firefighting equipment that is in damaged or unserviceable condition is removed from service and replaced.

History: 1984 AACCS; 2015 AACCS; 2023 MR 20, Eff. Oct. 23, 2023.

**R 408.17313 Proper use, handling, storage, and containment of firefighting foam concentrate.**

Rule 17313. (1) An employer must follow the specific, manufacturer provided safety data sheets (SDSs) for all firefighting foam concentrate that employees may be exposed to and follow best practices regarding the proper use, handling, and storage information.

(2) An employer must prevent intentionally added PFAS containing foam concentrate or foam solution from entering ground water, surface water, or storm drains, as soon as possible. Manual containment strategies used for spills involving a hazardous liquid should be employed. These include blocking storm drains to prevent the contaminated foam/water solution from entering the wastewater system or the environment. Defensive tactics such as damming, diking, and diverting should be employed to get the foam/water solution to an area suitable for containment until it can be removed in accordance with local, state, and federal regulations. Immediately after the end of a fire or other incident at which an organized fire brigade uses firefighting foam containing intentionally added PFAS, the employer must report the incident to the Michigan pollution emergency alert system.

(3) An employer must dispose of materials contaminated by foam containing PFAS pursuant to the natural resources and environmental protection act, 1994 PA 451, MCL 324.101 to 324.90106.

(4) An employer must ensure the decontamination of an employee's body and equipment as follows:

(a) Post fire response contaminated personal protective equipment (PPE) must be decontaminated as soon as practical. A mild detergent, with a pH of not less than 6 and not greater than 10.5, must be used. The use of chlorine bleach, chlorinated solvents, or other organic solvents is not permitted. Follow manufacturer's recommended cleaning procedures.

(b) An employee's exposed skin, including the neck, face, and hands, must be decontaminated, post fire response and whenever exposed to firefighting foam. Employees must wash exposed skin with a mild soap and rinse thoroughly with water.

(5) An employer must prohibit the use of firefighting foam concentrate containing intentionally added PFAS, by an employee for training purposes.

(6) An employer must prohibit the use of firefighting foam concentrate containing intentionally added PFAS, by an employee, for equipment calibration purposes, unless required by law or the facility where the calibration takes place has implemented appropriate measures.

History: 2023 MR 20, Eff. Oct. 23, 2023.

**R 408.17314 Personal protective equipment for structural firefighting.**

Rule 7314. (1) The protective ensemble requirements in these rules apply to those employees who perform structural firefighting. The protective ensemble requirements do not apply to employees who only control or extinguish incipient stage fires.



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(2) An employer shall provide a protective ensemble that is in compliance with the requirements of this part without cost to an employee. An employer shall ensure that all fire brigade members wear the protective ensemble when performing structural firefighting.

(3) The employer shall ensure that the protective ensemble protects the head, body, and extremities, from hazards that are present or are likely to be present and consists of at least all of the following components:

(a) Foot and leg protection.

(b) Hand protection.

(c) Body protection.

(d) Face, eye, and head protection.

(4) When performing interior structural firefighting, the protective ensemble must meet or exceed the requirements of NFPA 1971: "Standard on Protective Ensembles for Structural Fire Fighting and Proximity Fire Fighting," 1997 edition, as adopted in R 408.17301. Effective January 1, 2025, when performing interior structural firefighting, the protective ensemble must meet or exceed the requirements of NFPA 1971: "Standard on Protective Ensembles for Structural Fire Fighting and Proximity Fire Fighting," 2013 edition, as adopted in R 408.17301.

(5) The protective ensemble must be inspected and cleaned after each use.

(6) An employer shall implement procedures for the inspecting and servicing of the protective ensemble according to the manufacturer's recommendations.

(7) An employer shall implement a procedure for determining whether the protective ensemble must be repaired or replaced. All repairs must be made in compliance with the manufacturer's recommendations.

History: 1984 AACs; 1998-2000 AACs; 2015 AACs; 2023 MR 20, Eff. Oct. 23, 2023.

**R 408.17315 Rescinded.**

History: 1984 AACs; 1998-2000 AACs; 2013 AACs; 2015 AACs; 2023 MR 20, Eff. Oct. 23, 2023.

**R 408.17316 Rescinded.**

History: 1984 AACs; 1998-2000 AACs; 2015 AACs; 2023 MR 20, Eff. Oct. 23, 2023.

**R 408.17317 Rescinded.**

History: 1984 AACs; 1998-2000 AACs; 2015 AACs; 2023 MR 20, Eff. Oct. 23, 2023.

**R 408.17318 Rescinded.**

History: 1984 AACs; 1998-2000 AACs; 2013 AACs; 2015 AACs; 2023 MR 20, Eff. Oct. 23, 2023.

**R 408.17320 Respiratory protection devices.**

Rule 7320. (1) Effective January 1, 2025, when performing interior structural firefighting an employer shall ensure any self-contained breathing apparatus currently in use must meet or exceed the requirements of NFPA 1981: "Standard on Open-Circuit Self-Contained Breathing Apparatus (SCBA) for Emergency Services," 2007 edition, as adopted in R 408.17301.

(2) Effective January 1, 2025, an employer shall provide and enforce the use of a Personal Alert Safety Systems (PASS) device to each employee utilizing a self-contained breathing apparatus when performing interior structural firefighting. PASS devices shall meet or exceed the requirements of NFPA 1982: "Standard on Personal Alert Safety Systems (PASS)," 2007 edition, as adopted in R 408.17301.

History: 1984 AACs; 1998-2000 AACs; 2013 AACs; 2015 AACs; 2023 MR 20, Eff. Oct. 23, 2023.

**R 408.17322**

Source: 1998-2000 AACs.

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**PART 74. FIREFIGHTING**

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**R 408.17401**  
Source: 2022 AACS.

**R 408.17402**  
Source: 2022 AACS.

**R 408.17403**  
Source: 2022 AACS.

**R 408.17404**  
Source: 2022 AACS.

**R 408.17405**  
Source: 2022 AACS.

**R 408.17411**  
Source: 2022 AACS.

**R 408.17412**  
Source: 2013 AACS.

**R 408.17415**  
Source: 2022 AACS.

**CONSTRUCTION AND USE OF EQUIPMENT**

**R 408.17421**  
Source: 2022 AACS.

**R 408.17422**  
Source: 2022 AACS.

**R 408.17423**  
Source: 2022 AACS.

**R 408.17424**  
Source: 2022 AACS.

**R 408.17425**  
Source: 2001 AACS.

**R 408.17426**  
Source: 2022 AACS.

**R 408.17427**  
Source: 1979 AC.

**R 408.17428**  
Source: 1979 AC.

**R 408.17430**  
Source: 2022 AACS.

**PROTECTIVE EQUIPMENT**

**R 408.17431**  
Source: 2022 AACS.

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**R 408.17432**  
Source: 2022 AACS.

**R 408.17433**  
Source: 2022 AACS.

**R 408.17434**  
Source: 2022 AACS.

**R 408.17435**  
Source: 2022 AACS.

**R 408.17436**  
Source: 2022 AACS.

**R 408.17437**  
Source: 2022 AACS.

**R 408.17440**  
Source: 2022 AACS.

**TOOLS**

**R 408.17441**  
Source: 1979 AC.

**R 408.17442**  
Source: 2001 AACS.

**R 408.17443**  
Source: 2022 AACS.

**OPERATIONS**

**R 408.17451**  
Source: 2022 AACS.

**R 408.17452**  
Source: 2001 AACS.

**INSPECTIONS**

**R 408.17461**  
Source: 2022 AACS.

**R 408.17462**  
Source: 1997 AACS.

**R 408.17463**  
Source: 2022 AACS.

**R 408.17464**  
Source: 2022 AACS.

**PART 75. FLAMMABLE AND COMBUSTIBLE LIQUIDS**

**R 408.17501**

**Annual Administrative Code Supplement  
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**Source:** 2013 AACs.

**R 408.17502**

**Source:** 2013 AACs.

**PART 76. SPRAY FINISHING USING FLAMMABLE AND COMBUSTIBLE MATERIALS**

**R 408.17601**

**Source:** 2014 AACs.

**R 408.17602**

**Source:** 2014 AACs.

**R 408.17603**

**Source:** 2007 AACs.

**R 408.17605**

**Source:** 2007 AACs.

**R 408.17607**

**Source:** 2007 AACs.

**R 408.17609**

**Source:** 2007 AACs.

**R 408.17610**

**Source:** 2007 AACs.

**R 408.17612**

**Source:** 2007 AACs.

**R 408.17613**

**Source:** 2007 AACs.

**R 408.17614**

**Source:** 2007 AACs.

**R 408.17615**

**Source:** 2007 AACs.

**R 408.17616**

**Source:** 2007 AACs.

**R 408.17618**

**Source:** 2007 AACs.

**R 408.17620**

**Source:** 2007 AACs.

**R 408.17621**

**Source:** 2007 AACs.

**R 408.17622**

**Source:** 2007 AACs.

**R 408.17623**

**Source:** 2007 AACs.

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**R 408.17624**  
Source: 2007 AACs.

**R 408.17630**  
Source: 2007 AACs.

**R 408.17631**  
Source: 2007 AACs.

**R 408.17632**  
Source: 2007 AACs.

**R 408.17633**  
Source: 2007 AACs.

**R 408.17636**  
Source: 2007 AACs.

**R 408.17637**  
Source: 2007 AACs.

**R 408.17640**  
Source: 2007 AACs.

**R 408.17641**  
Source: 2007 AACs.

**R 408.17650**  
Source: 2007 AACs.

**R 408.17651**  
Source: 2007 AACs.

**R 408.17696**  
Source: 2007 AACs.

**R 408.17699**  
Source: 2007 AACs.

**DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS**

**DIRECTOR'S OFFICE**

**GENERAL INDUSTRY SAFETY AND HEALTH STANDARD**

**PART 77. GRAIN HANDLING FACILITIES**

**R 408.17701**  
Source: 2014 AACs.

**R 408.17701a**  
Source: 2018 AACs.

**R 408.17701b**  
Source: 2018 AACs.

**R 408.17701c**

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**Source:** 2018 AACCS.

**R 408.17701d**

**Source:** 2018 AACCS.

**R 408.17702**

**Source:** 2014 AACCS.

**R 408.17703**

**Source:** 2014 AACCS.

**R 408.17704**

**Source:** 2018 AACCS.

**R 408.17705**

**Source:** 2018 AACCS.

**R 408.17706**

**Source:** 2018 AACCS.

**R 408.17707**

**Source:** 2018 AACCS.

**R 408.17708**

**Source:** 2018 AACCS.

**R 408.17709**

**Source:** 2018 AACCS.

**R 408.17710**

**Source:** 2018 AACCS.

**R 408.17711**

**Source:** 2018 AACCS.

**R 408.17712**

**Source:** 2018 AACCS.

**R 408.17713**

**Source:** 2018 AACCS.

**R 408.17714**

**Source:** 2018 AACCS.

**R 408.17715**

**Source:** 2018 AACCS.

**R 408.17716**

**Source:** 2018 AACCS.

**R 408.17717**

**Source:** 2018 AACCS.

**R 408.17717a**

**Source:** 2018 AACCS.

**R 408.17717b**

**Source:** 2018 AACCS.

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**R 408.17717c**  
Source: 2018 AACS.

**R 408.17717d**  
Source: 2018 AACS.

**R 408.17719**  
Source: 2018 AACS.

**PART 78. ANHYDROUS AMMONIA**

**R 408.17801**  
Source: 2015 AACS.

**PART 79. DIVING OPERATIONS**

**R 408.17901**  
Source: 2013 AACS.

**R 408.17903**  
Source: 2013 AACS.

**R 408.17904**  
Source: 2013 AACS.

**R 408.17905**  
Source: 2013 AACS.

**R 408.17906**  
Source: 2013 AACS.

**R 408.17907**  
Source: 2013 AACS.

**R 408.17909**  
Source: 2013 AACS.

**R 408.17911**  
Source: 2013 AACS.

**R 408.17912**  
Source: 2013 AACS.

**R 408.17913**  
Source: 2013 AACS.

**R 408.17914**  
Source: 2013 AACS.

**R 408.17921**  
Source: 2013 AACS.

**R 408.17922**  
Source: 2013 AACS.

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**R 408.17923**  
Source: 2013 AACCS.

**R 408.17924**  
Source: 2013 AACCS.

**R 408.17925**  
Source: 2013 AACCS.

**R 408.17926**  
Source: 2013 AACCS.

**R 408.17927**  
Source: 2013 AACCS.

**R 408.17931**  
Source: 2013 AACCS.

**R 408.17932**  
Source: 2013 AACCS.

**R 408.17933**  
Source: 2013 AACCS.

**R 408.17934**  
Source: 2013 AACCS.

**R 408.17941**  
Source: 2013 AACCS.

**R 408.17942**  
Source: 2013 AACCS.

**R 408.17945**  
Source: 2013 AACCS.

**R 408.17946**  
Source: 2013 AACCS.

**R 408.17951**  
Source: 2013 AACCS.

**R 408.17952**  
Source: 2013 AACCS.

**R 408.17953**  
Source: 2013 AACCS.

**R 408.17954**  
Source: 2013 AACCS.

**R 408.17955**  
Source: 2013 AACCS.

**R 408.17956**  
Source: 2013 AACCS.



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**R 408.17957**  
Source: 2013 AACS.

**R 408.17958**  
Source: 2013 AACS.

**R 408.17961**  
Source: 2013 AACS.

**R 408.17962**  
Source: 2013 AACS.

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**DIRECTOR'S OFFICE**

**GENERAL INDUSTRY SAFETY AND HEALTH STANDARD**

**PART 81. BAKING OPERATIONS**

**R 408.18101**  
Source: 2014 AACS.

**R 408.18101a**  
Source: 2019 AACS.

**R 408.18102**  
Source: 1979 AC.

**R 408.18103**  
Source: 1979 AC.

**R 408.18104**  
Source: 1979 AC.

**R 408.18105**  
Source: 1979 AC.

**R 408.18106**  
Source: 1979 AC.

**R 408.18107**  
Source: 1979 AC.

**R 408.18108**  
Source: 1979 AC.

**R 408.18109**  
Source: 1979 AC.

**R 408.18111**  
Source: 2019 AACS.

**R 408.18112**  
Source: 1979 AC.

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**R 408.18113**

Source: 1979 AC.

**R 408.18114**

Source: 2019 AACCS.

**R 408.18115**

Source: 2014 AACCS.

**R 408.18116**

Source: 2019 AACCS.

**R 408.18117**

Source: 1982 AACCS.

**R 408.18118**

Source: 1979 AC.

**R 408.18119**

Source: 1979 AC.

**SPECIFIC EQUIPMENT**

**R 408.18121**

Source: 1982 AACCS.

**R 408.18122**

Source: 2014 AACCS.

**R 408.18123**

Source: 1982 AACCS.

**R 408.18124**

Source: 1982 AACCS.

**R 408.18125**

Source: 2019 AACCS.

**R 408.18126**

Source: 1982 AACCS.

**R 408.18127**

Source: 1982 AACCS.

**R 408.18128**

Source: 1979 AC.

**R 408.18129**

Source: 1979 AC.

**R 408.18130**

Source: 2014 AACCS.

**R 408.18131**

Source: 1979 AC.

**R 408.18132**

Source: 1979 AC.

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- R 408.18133**  
Source: 1979 AC.
- R 408.18134**  
Source: 1982 AACCS.
- R 408.18135**  
Source: 1979 AC.
- R 408.18136**  
Source: 1979 AC.
- R 408.18138**  
Source: 1979 AC.
- R 408.18139**  
Source: 1979 AC.
- R 408.18141**  
Source: 1979 AC.
- R 408.18142**  
Source: 1982 AACCS.
- R 408.18143**  
Source: 1982 AACCS.
- R 408.18144**  
Source: 1982 AACCS.
- R 408.18145**  
Source: 1982 AACCS.
- R 408.18146**  
Source: 1982 AACCS.
- R 408.18147**  
Source: 2014 AACCS.
- R 408.18148**  
Source: 1979 AC.
- R 408.18149**  
Source: 2014 AACCS.
- R 408.18151**  
Source: 1979 AC.
- R 408.18152**  
Source: 1979 AC.
- R 408.18153**  
Source: 1982 AACCS.
- R 408.18154**  
Source: 1979 AC.
- R 408.18155**

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Source: 1979 AC.

**R 408.18156**

Source: 2014 AACCS.

**R 408.18157**

Source: 1979 AC.

**R 408.18158**

Source: 1982 AACCS.

**R 408.18159**

Source: 1979 AC.

**R 408.18159a**

Source: 2014 AACCS.

**R 408.18160**

Source: 1979 AC.

**R 408.18161**

Source: 1979 AC.

**R 408.18171**

Source: 2014 AACCS.

**R 408.18172**

Source: 1979 AC.

**R 408.18173**

Source: 1979 AC.

**R 408.18174**

Source: 1979 AC.

**R 408.18175**

Source: 1979 AC.

**R 408.18176**

Source: 1979 AC.

**R 408.18177**

Source: 1979 AC.

**R 408.18181**

Source: 2014 AACCS.

**R 408.18182**

Source: 2014 AACCS.

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**GENERAL INDUSTRY SAFETY STANDARDS**

**PART 85. THE CONTROL OF HAZARDOUS ENERGY SOURCES**

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**R 408.18501**  
Source: 1993 AACCS.

**R 408.18502**  
Source: 2016 AACCS.

**R 408.18599**  
Source: 2016 AACCS.

**DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS**

**DIRECTOR'S OFFICE**

**GENERAL INDUSTRY SAFETY AND HEALTH STANDARD**

**PART 86. ELECTRIC POWER GENERATION, TRANSMISSION, AND DISTRIBUTION**

**R 408.18601**  
Source: 2018 AACCS.

**R 408.18602**  
Source: 2018 AACCS.

**R 408.18605**  
Source: 2018 AACCS.

**R 408.18610**  
Source: 2018 AACCS.

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**DIRECTOR'S OFFICE**

**GENERAL INDUSTRY SAFETY STANDARDS**

**PART 90. PERMIT-REQUIRED CONFINED SPACES**

**R 408.19001**  
Source: 2017 AACCS.

**R 408.19002**  
Source: 2017 AACCS.

**DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS**

**DIRECTOR'S OFFICE**

**GENERAL INDUSTRY SAFETY STANDARDS**

**PART 91. PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS CHEMICALS**

**R 408.19101**  
Source: 2017 AACCS.

**R 408.19102**  
Source: 2017 AACCS.

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**R 408.19103**  
Source: 2017 AACS.

**PART 92. HAZARD COMMUNICATION**

**R 408.19201**  
Source: 2014 AACS.

**R 408.19202**  
Source: 2014 AACS.

**R 408.19203**  
Source: 2014 AACS.

**R 408.19204**  
Source: 2014 AACS.

**PART 93. AIR RECEIVERS**

**R 408.19301**  
Source: 1998-2000 AACS.

**DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS**

**DIRECTOR'S OFFICE**

**GENERAL INDUSTRY SAFETY AND HEALTH STANDARD**

**PART 94 TEXTILES**

**R 408.19401**  
Source: 2018 AACS.

**R 408.19403**  
Source: 2018 AACS.

**R 408.19405**  
Source: 2018 AACS.

**R 408.19410**  
Source: 2018 AACS.

**Rule 3403**  
Source: 2014 AACS.

**Rule 3504**  
Source: 2014 AACS.

**Rule 5002**  
Source: 2014 AACS.

**COMPLIANCE AND APPEALS**

**R 408.19901**  
Source: 1998-2000 AACS.

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- R 408.19902**  
Source: 1998-2000 AACS.
- R 408.19903**  
Source: 1998-2000 AACS.
- R 408.19904**  
Source: 1998-2000 AACS.
- R 408.19905**  
Source: 1998-2000 AACS.
- R 408.19906**  
Source: 1998-2000 AACS.
- R 408.19907**  
Source: 1998-2000 AACS.
- R 408.19908**  
Source: 1998-2000 AACS.
- R 408.19909**  
Source: 1998-2000 AACS.
- R 408.19910**  
Source: 1998-2000 AACS.

**DEPARTMENT ORGANIZATION AND GENERAL FUNCTIONS**

**PART 1. DIRECTOR'S OFFICE**

- R 408.20001**  
Source: 1997 AACS.
- R 408.20002**  
Source: 1997 AACS.
- R 408.20003**  
Source: 1997 AACS.
- R 408.20004**  
Source: 1997 AACS.
- R 408.20005**  
Source: 1997 AACS.
- R 408.20006**  
Source: 1997 AACS.

**PART 2. BUREAU OF ADMINISTRATIVE SERVICES**

- R 408.20011**  
Source: 1997 AACS.
- R 408.20012**  
Source: 1997 AACS.

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**R 408.20013**  
Source: 1997 AACCS.

**R 408.20014**  
Source: 1997 AACCS.

**R 408.20015**  
Source: 1997 AACCS.

**PART 3. BUREAU OF SAFETY AND REGULATION**

**R 408.20021—R 408.20031**  
Source: 1997 AACCS.

**PART 4. EMPLOYMENT RELATIONS COMMISSION**

**R 408.20041**  
Source: 1997 AACCS.

**R 408.20042**  
Source: 1997 AACCS.

**R 408.20043**  
Source: 1997 AACCS.

**PART 5. WORKMEN'S COMPENSATION AGENCIES**

**BUREAU OF WORKMEN'S COMPENSATION**

**R 408.20051**  
Source: 1997 AACCS.

**R 408.20052**  
Source: 1997 AACCS.

**R 408.20053**  
Source: 1997 AACCS.

**R 408.20054**  
Source: 1997 AACCS.

**R 408.20055**  
Source: 1997 AACCS.

**R 408.20056**  
Source: 1997 AACCS.

**R 408.20057**  
Source: 1997 AACCS.

**PART 6. EMPLOYMENT SECURITY AGENCIES**

**R 408.20061**  
Source: 1997 AACCS.

**R 408.20062**  
Source: 1997 AACCS.



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**R 408.20063**  
Source: 1997 AACCS.

**R 408.20064**  
Source: 1997 AACCS.

**R 408.20065**  
Source: 1997 AACCS.

**PART 7. OTHER BOARDS AND COMMISSIONS**

**R 408.20071**  
Source: 1997 AACCS.

**R 408.20072**  
Source: 1997 AACCS.

**R 408.20073**  
Source: 1997 AACCS.

**R 408.20074**  
Source: 1997 AACCS.

**R 408.20075**  
Source: 1997 AACCS.

**R 408.20076**  
Source: 1997 AACCS.

**R 408.20077**  
Source: 1997 AACCS.

**R 408.20078**  
Source: 1997 AACCS.

**R 408.20079**  
Source: 1997 AACCS.

**R 408.20080**  
Source: 1997 AACCS.

**R 408.20081**  
Source: 1997 AACCS.

**R 408.20082**  
Source: 1997 AACCS.

**R 408.20083**  
Source: 1997 AACCS.

**R 408.20084**  
Source: 1997 AACCS.

**R 408.20085**  
Source: 1997 AACCS.

**R 408.20086**  
Source: 1997 AACCS.

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**OCCUPATIONAL SAFETY AND HEALTH  
PART 4. PROCEDURES**

**R 408.21401**  
Source: 1979 AC.

**R 408.21403**  
Source: 1979 AC.

**R 408.21405**  
Source: 1979 AC.

**R 408.21411**  
Source: 1979 AC.

**R 408.21412**  
Source: 1979 AC.

**R 408.21413**  
Source: 1979 AC.

**R 408.21414**  
Source: 1979 AC.

**R 408.21415**  
Source: 1979 AC.

**R 408.21416**  
Source: 1979 AC.

**R 408.21417**  
Source: 1979 AC.

**R 408.21418**  
Source: 1979 AC.

**R 408.21421**  
Source: 1979 AC.

**R 408.21422**  
Source: 1979 AC.

**R 408.21423**  
Source: 1979 AC.

**R 408.21424**  
Source: 1979 AC.

**R 408.21425**  
Source: 1979 AC.

**R 408.21426**  
Source: 1979 AC.

**R 408.21427**  
Source: 1979 AC.

**R 408.21428**  
Source: 1979 AC.

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**R 408.21429**  
Source: 1979 AC.

**R 408.21431**  
Source: 1979 AC.

**R 408.21432**  
Source: 1979 AC.

**R 408.21433**  
Source: 1979 AC.

**R 408.21434**  
Source: 1979 AC.

**R 408.21441**  
Source: 1979 AC.

**R 408.21442**  
Source: 1979 AC.

**R 408.21443**  
Source: 1979 AC.

**R 408.21444**  
Source: 1979 AC.

**R 408.21445**  
Source: 1979 AC.

**R 408.21446**  
Source: 1979 AC.

**R 408.21447**  
Source: 1979 AC.

**DEPARTMENT OF LABOR AND ECONOMIC OPPORTUNITY**

**DIRECTOR'S OFFICE**

**MIOSHA SAFETY AND HEALTH STANDARD**

**PART 11. RECORDING AND REPORTING OF OCCUPATIONAL INJURIES AND ILLNESSES**

**R 408.22101**  
Source: 2015 AACS.

**R 408.22102**  
Source: 2015 AACS.

**R 408.22102a**  
Source: 2021 AACS.

**R 408.22103**  
Source: 2021 AACS.

**R 408.22104**  
Source: 2021 AACS.

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**R 408.22105**  
Source: 2015 AACCS.

**R 408.22106**  
Source: 2015 AACCS.

**R 408.22107**  
Source: 2021 AACCS.

**R 408.22108**  
Source: 2001 AACCS.

**R 408.22109**  
Source: 2015 AACCS.

**R 408.22110**  
Source: 2015 AACCS.

**R 408.22110a**  
Source: 2015 AACCS.

**R 408.22110b**  
Source: 2015 AACCS.

**R 408.22111**  
Source: 2001 AACCS.

**R 408.22112**  
Source: 2015 AACCS.

**R 408.22112a**  
Source: 2015 AACCS.

**R 408.22112b**  
Source: 2015 AACCS.

**R 408.22112c**  
Source: 2015 AACCS.

**R 408.22112d**  
Source: 2015 AACCS.

**R 408.22112e**  
Source: 2015 AACCS.

**R 408.22112f**  
Source: 2015 AACCS.

**R 408.22113**  
Source: 2015 AACCS.

**R 408.22114**  
Source: 2001 AACCS.

**R 408.22115**

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Source: 2015 AACs.

**R 408.22116**

Source: 2001 AACs.

**R 408.22117**

Source: 2015 AACs.

**R 408.22118**

Source: 1979 AC.

**R 408.22119**

Source: 2015 AACs.

**R 408.22120**

Source: 2001 AACs.

**R 408.22121**

Source: 2001 AACs.

**R 408.22122**

Source: 2001 AACs.

**R 408.22129**

Source: 2015 AACs.

**R 408.22130**

Source: 2015 AACs.

**R 408.22131**

Source: 2001 AACs.

**R 408.22132**

Source: 2001 AACs.

**R 408.22133**

Source: 2021 AACs.

**R 408.22134**

Source: 2001 AACs.

**R 408.22135**

Source: 2002 AACs.

**R 408.22136**

Source: 2001 AACs.

**R 408.22137**

Source: 1979 AC.

**R 408.22138**

Source: 2015 AACs.

**R 408.22139**

Source: 2015 AACs.

**R 408.22140**

Source: 2001 AACs.

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**R 408.22141**  
Source: 2019 AACCS.

**R 408.22141a**  
Source: 2019 AACCS.

**R 408.22142**  
Source: 2001 AACCS.

**R 408.22143**  
Source: 2001 AACCS.

**R 408.22144**  
Source: 2001 AACCS.

**R 408.22151**  
Source: 2021 AACCS.

**R 408.22152**  
Source: 2001 AACCS.

**R 408.22153**  
Source: 2001 AACCS.

**R 408.22154**  
Source: 2001 AACCS.

**R 408.22155**  
Source: 2001 AACCS.

**R 408.22156**  
Source: 2021 AACCS.

**R 408.22157**  
Source: 2001 AACCS.

**R 408.22158**  
Source: 2001 AACCS.

**R 408.22161**  
Source: 2015 AACCS.

**R 408.22162**  
Source: 2015 AACCS.

**DEPARTMENT OF CONSUMER & INDUSTRY SERVICES**

**MIOSHA SAFETY AND HEALTH STANDARDS**

**PART 12. VARIANCES**

**R 408.22201**  
Source: 1979 AC.

**R 408.22203**  
Source: 1998-2000 AACCS.

**R 408.22204**

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**Source:** 1979 AC.

**R 408.22212**

**Source:** 1979 AC.

**R 408.22213**

**Source:** 1998-2000 AACS.

**R 408.22214**

**Source:** 1979 AC.

**R 408.22215**

**Source:** 1979 AC.

**R 408.22221**

**Source:** 1998-2000 AACS.

**R 408.22222**

**Source:** 1979 AC.

**R 408.22223**

**Source:** 1979 AC.

**R 408.22224**

**Source:** 1998-2000 AACS.

**R 408.22225**

**Source:** 1979 AC.

**R 408.22226**

**Source:** 1979 AC.

**R 408.22227**

**Source:** 1998-2000 AACS.

**R 408.22231**

**Source:** 1979 AC.

**R 408.22232**

**Source:** 1979 AC.

**R 408.22233**

**Source:** 1979 AC.

**R 408.22234**

**Source:** 1998-2000 AACS.

**R 408.22235**

**Source:** 1979 AC.

**R 408.22236**

**Source:** 1979 AC.

**R 408.22237**

**Source:** 1979 AC.

**R 408.22238**

**Source:** 1979 AC.

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**R 408.22239**  
Source: 1979 AC.

**R 408.22240**  
Source: 1998-2000 AACs.

**R 408.22251**  
Source: 1979 AC.

**PART 13. INSPECTIONS AND INVESTIGATIONS, CITATIONS, AND PROPOSED PENALTIES**

**R 408.22301**  
Source: 1979 AC.

**R 408.22303**  
Source: 1979 AC.

**R 408.22305**  
Source: 1979 AC.

**R 408.22307**  
Source: 1979 AC.

**R 408.22309**  
Source: 1979 AC.

**R 408.22311**  
Source: 1979 AC.

**R 408.22321**  
Source: 1979 AC.

**R 408.22322**  
Source: 1979 AC.

**R 408.22323**  
Source: 1979 AC.

**R 408.22324**  
Source: 1979 AC.

**R 408.22325**  
Source: 1979 AC.

**R 408.22326**  
Source: 1979 AC.

**R 408.22331**  
Source: 1979 AC.

**R 408.22333**  
Source: 1979 AC.

**R 408.22338**  
Source: 1979 AC.

**R 408.223239**  
Source: 1979 AC.



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**R 408.22342**  
Source: 1979 AC.

**R 408.22344**  
Source: 1979 AC.

**R 408.22346**  
Source: 1979 AC.

**R 408.22348**  
Source: 1979 AC.

**R 408.22349**  
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**R 408.22351**  
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**R 408.22352**  
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**R 408.22353**  
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**R 408.22354**  
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**R 408.22355**  
Source: 1979 AC.

**R 408.22356**  
Source: 1979 AC.

**R 408.22358**  
Source: 1979 AC.

**R 408.22361**  
Source: 1979 AC.

**HEARINGS OFFICE  
POLITICAL ACTIVITY HEARINGS**

**R 408.22901**  
Source: 1981 AACS.

**R 408.22902**  
Source: 1981 AACS.

**WAGE AND FRINGE BENEFIT HEARINGS**

**R 408.22951**  
Source: 2015 AACS.

**R 408.22952**  
Source: 2015 AACS.

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**R 408.22953**  
Source: 2015 AACCS.

**R 408.22954**  
Source: 2015 AACCS.

**R 408.22955**  
Source: 2015 AACCS.

**R 408.22956**  
Source: 2015 AACCS.

**R 408.22957**  
Source: 2015 AACCS.

**R 408.22958**  
Source: 2015 AACCS.

**R 408.22959**  
Source: 2015 AACCS.

**R 408.22960**  
Source: 2015 AACCS.

**R 408.22961**  
Source: 2015 AACCS.

**R 408.22962**  
Source: 2015 AACCS.

**R 408.22963**  
Source: 2015 AACCS.

**R 408.22964**  
Source: 2015 AACCS.

**R 408.22965**  
Source: 2015 AACCS.

**R 408.22966**  
Source: 2015 AACCS.

**R 408.22967**  
Source: 2015 AACCS.

**R 408.22968**  
Source: 2015 AACCS.

**R 408.22969**  
Source: 2015 AACCS.

**R 408.22970**  
Source: 2015 AACCS.

**R 408.22971**  
Source: 2015 AACCS.

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**R 408.30001 Rescinded.**

History: 1991 AACS; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.30002 Rescinded.**

History: 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.30004 Rescinded.**

History: 1991 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.30007 Rescinded.**

History: 1991 AACS; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.30010 Rescinded.**

History: 1991 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.30013 Rescinded.**

History: 1991 AACS; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.30016 Rescinded.**

History: 1991 AACS; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.30019 Rescinded.**

History: 1991 AACS; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.30022 Rescinded.**

History: 1991 AACS; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.30025 Rescinded.**

History: 1991 AACS; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.30028 Rescinded.**

History: 1991 AACS; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.30031 Rescinded.**

History: 1991 AACS; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.30034 Rescinded.**

History: 1991 AACS; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.30037 Rescinded.**

History: 1991 AACS; 1998-2000 AACS; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.30040 Rescinded.**

History: 1991 AACS; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.30043 Rescinded.**

History: 1991 AACS; 1998-2000 AACS; 2013 AACS; 2023 MR 8, Eff. May 3, 2023.

**R 408.30046 Rescinded.**

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History: 1991 AACCS; 2013 AACCS; 2023 MR 8, Eff. May 3, 2023.

**R 408.30049 Rescinded.**

History: 1991 AACCS; 2013 AACCS; 2023 MR 8, Eff. May 3, 2023.

**R 408.30052 Rescinded.**

History: 1991 AACCS; 2013 AACCS; 2023 MR 8, Eff. May 3, 2023.

**R 408.30055 Rescinded.**

History: 1991 AACCS; 2013 AACCS; 2023 MR 8, Eff. May 3, 2023.

**CONSTRUCTION CODE**

**PART 1. ADMINISTRATION AND ENFORCEMENT**

**R 408.30101**

Source: 1979 AC.

**R 408.30111**

Source: 1981 AACCS.

**R 408.30113**

Source: 1979 AC.

**R 408.30114**

Source: 1981 AACCS.

**R 408.30115**

Source: 1979 AC.

**R 408.30121**

Source: 1979 AC.

**PART 2. PERMITS, INSPECTIONS, AND FEES**

**R 408.30201**

Source: 1979 AC.

**R 408.30221**

Source: 1979 AC.

**PART 3. APPEAL BOARDS AND HEARINGS**

**R 408.30301**

Source: 1979 AC.

**R 408.30311**

Source: 1979 AC.

**R 408.30315**

Source: 1979 AC.

**R 408.30316**

Source: 1987 AACCS.

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**CONSTRUCTION CODE**

**PART 4. BUILDING CODE**

**R 408.30401**  
Source: 2017 AACCS.

**R 408.30401a**  
Source: 2008 AACCS.

**R 408.30402**  
Source: 2001 AACCS.

**R 408.30403**  
Source: 2016 AACCS.

**R 408.30403a**  
Source: 1997 AACCS.

**R 408.30404**  
Source: 2014 AACCS.

**R 408.30405**  
Source: 2010 AACCS.

**R 408.30406**  
Source: 2004 AACCS.

**R 408.30407**  
Source: 1998-2000 AACCS.

**R 408.30408**  
Source: 2010 AACCS.

**R 408.30409**  
Source: 2014 AACCS.

**R 408.30410**  
Source: 2010 AACCS.

**R 408.30411**  
Source: 2014 AACCS.

**R 408.30412**  
Source: 2014 AACCS.

**R 408.30413**  
Source: 2010 AACCS.

**R 408.30414**  
Source: 2014 AACCS.

**R 408.30415**

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**Source:** 1997 AACCS.

**R 408.30415a**

**Source:** 2016 AACCS.

**R 408.30417**

**Source:** 2008 AACCS.

**R 408.30418**

**Source:** 2016 AACCS.

**R 408.30419**

**Source:** 2016 AACCS.

**R 408.30420**

**Source:** 2016 AACCS.

**R 408.30421**

**Source:** 2016 AACCS.

**R 408.30422**

**Source:** 1997 AACCS.

**R 408.30423**

**Source:** 1997 AACCS.

**R 408.30427**

**Source:** 2016 AACCS.

**R 408.30427a**

**Source:** 2001 AACCS.

**R 408.30427b**

**Source:** 2001 AACCS.

**R 408.30427c**

**Source:** 2001 AACCS.

**R 408.30427d**

**Source:** 2001 AACCS.

**R 408.30427e**

**Source:** 2001 AACCS.

**R 408.30428**

**Source:** 2016 AACCS.

**R 408.30429**

**Source:** 2016 AACCS.

**R 408.30429a**

**Source:** 2016 AACCS.

**R 408.30429b**

**Source:** 2014 AACCS.

**R 408.30430**

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Source: 2016 AACs.

**R 408.30431**

Source: 1997 AACs.

**R 408.30432**

Source: 2016 AACs.

**R 408.30433**

Source: 1998-2000 AACs.

**R 408.30434**

Source: 1997 AACs.

**R 408.30437**

Source: 2016 AACs.

**R 408.30441**

Source: 2016 AACs.

**R 408.30442**

Source: 2014 AACs.

**R 408.30443**

Source: 2014 AACs.

**R 408.30444**

Source: 2008 AACs.

**R 408.30445**

Source: 2016 AACs.

**R 408.30446**

Source: 2016 AACs.

**R 408.30447**

Source: 2016 AACs.

**R 408.30448**

Source: 2016 AACs.

**R 408.30448a**

Source: 1997 AACs.

**R 408.30448b**

Source: 1997 AACs.

**R 408.30448c**

Source: 1997 AACs.

**R 408.30448d**

Source: 2010 AACs.

**R 408.30449**

Source: 2014 AACs.

**R 408.30449a**

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**Source:** 1997 AACCS.

**R 408.30451e**

**Source:** 1998-2000 AACCS.

**R 408.30451a**

**Source:** 1997 AACCS.

**R 408.30451b**

**Source:** 1997 AACCS.

**R 408.30451c**

**Source:** 2016 AACCS.

**R 408.30451d**

**Source:** 1997 AACCS.

**R 408.30451e**

**Source:** 1995 AACCS.

**R 408.30452**

**Source:** 2016 AACCS.

**R 408.30453**

**Source:** 2001 AACCS.

**R 408.30454**

**Source:** 1998-2000 AACCS.

**R 408.30455**

**Source:** 1998-2000 AACCS.

**R 408.30456**

**Source:** 1998-2000 AACCS.

**R 408.30457**

**Source:** 2008 AACCS.

**R 408.30458**

**Source:** 2016 AACCS.

**R 408. 30459**

**Source:** 2016 AACCS.

**R 408.30460**

**Source:** 1997 AACCS.

**R 408.30461**

**Source:** 2004 AACCS.

**R 408.30475**

**Source:** 2016 AACCS.

**R 408.30476**

**Source:** 2016 AACCS.

**R 408.30495**

**Source:** 2008 AACCS.



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**R 408.30495a**  
Source: 2004 AACs.

**R 408.30495b**  
Source: 1997 AACs.

**R 408.30495c**  
Source: 1997 AACs.

**R 408.30495d**  
Source: 1997 AACs.

**R 408.30495e**  
Source: 1997 AACs.

**R 408.30495f**  
Source: 1997 AACs.

**R 408.30495g**  
Source: 1997 AACs.

**R 408.30495h**  
Source: 1997 AACs.

**R 408.30495i**  
Source: 1997 AACs.

**R 408.30495j**  
Source: 1997 AACs.

**R 408.30495k**  
Source: 1997 AACs.

**R 408.30497**  
Source: 2016 AACs.

**R 408.30499**  
Source: 2014 AACs.

**R 408.30499a**  
Source: 2001 AACs.

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**PART 5. RESIDENTIAL CODE**

**R 408.30500**  
Source: 2022 AACs.

**R 408.30501**  
Source: 2015 AACs.

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**R 408.30501a**  
Source: 2015 AACCS.

**R 408.30501b**  
Source: 2021 AACCS.

**R 408.30501c**  
Source: 2021 AACCS.

**R 408.30502**  
Source: 2010 AACCS.

**R 408.30503**  
Source: 2008 AACCS.

**R 408.30504**  
Source: 2021 AACCS.

**R 408.30505**  
Source: 2021 AACCS.

**R 408.30506**  
Source: 2021 AACCS.

**R 408.30507**  
Source: 2015 AACCS.

**R 408.30508**  
Source: 2008 AACCS.

**R 408.30509**  
Source: 2008 AACCS.

**R 408.30509a**  
Source: 2015 AACCS.

**R 408.30510**  
Source: 2015 AACCS.

**R408.30510a**  
Source: 2015 AACCS.

**R 408.30511**  
Source: 2008 AACCS.

**R 408.30512**  
Source: 2021 AACCS.

**R 408.30513**  
Source: 2021 AACCS.

**R 408.30514**  
Source: 2021 AACCS.

**R 408.30515**  
Source: 2010 AACCS.

**R 408.30516**

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Source: 2015 AACCS.

**R 408.30517**

Source: 2004 AACCS.

**R 408.30517a**

Source: 2010 AACCS.

**R 408.30518**

Source: 2015 AACCS.

**R 408.30519**

Source: 2010 AACCS.

**R 408.30520**

Source: 2015 AACCS.

**R 408.30521**

Source: 2010 AACCS.

**R 408.30521a**

Source: 2015 AACCS.

**R 408.30522**

Source: 2015 AACCS.

**R 408.30522a**

Source: 2015 AACCS.

**R408.30523a**

Source: 2015 AACCS.

**R 408.30524**

Source: 2004 AACCS.

**R 408.30525**

Source: 2008 AACCS.

**R 408.30525a**

Source: 2015 AACCS.

**R 408.30526**

Source: 2015 AACCS.

**R 408.30527**

Source: 2015 AACCS.

**R 408.30528**

Source: 2010 AACCS.

**R 408.30528a**

Source: 2015 AACCS.

**R 408.30529**

Source: 2015 AACCS.

**R 408.30530**

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Source: 2010 AACs.

**R 408.30531**

Source: 2010 AACs.

**R 408.30532**

Source: 2001 AACs.

**R 408.30533a**

Source: 2015 AACs.

**R 408.30533b**

Source: 2015 AACs.

**R 408.30534**

Source: 2010 AACs.

**R 408.30535**

Source: 2001 AACs.

**R 408.30536**

Source: 2015 AACs.

**R 408.30536a**

Source: 2015 AACs.

**R 408.30537**

Source: 2015 AACs.

**R 408.30537a**

Source: 2015 AACs.

**R 408.30537b**

Source: 2015 AACs.

**R 408.30537c**

Source: 2015 AACs.

**R 408.30537d**

Source: 2015 AACs.

**R 408.30538**

Source: 2010 AACs.

**R 408.30539**

Source: 2008 AACs.

**R 408.30539a**

Source: 2010 AACs.

**R 408.30540**

Source: 2010 AACs.

**R 408.30541**

Source: 2010 AACs.

**R 408.30541a**

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Source: 2015 AACs.

**R 408.30542**

Source: 2015 AACs.

**R 408.30543**

Source: 2015 AACs.

**R 408.30544**

Source: 2015 AACs.

**R 408.30544a**

Source: 2010 AACs.

**R 408.30544b**

Source: 2015 AACs.

**R 408.30544c**

Source: 2015 AACs.

**R 408.30545**

Source: 2015 AACs.

**R 408.30545a**

Source: 2015 AACs.

**R 408.30546**

Source: 2015 AACs.

**R 408.30547**

Source: 2015 AACs.

**R 408.30547a**

Source: 2015 AACs.

**R 408.30547b**

Source: 2015 AACs.

**R408.30547c**

Source: 2015 AACs.

**R408.30547d**

Source: 2015 AACs.

**R408.30547e**

Source: 2015 AACs.

**R408.30547f**

Source: 2015 AACs.

**R408.30547g**

Source: 2015 AACs.

**REHABILITATION CODE**

**R 408.30551**

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Source: 2016 AACs.

**R 408.30552**

Source: 2014 AACs.

**R 408.30553**

Source: 2002 AACs.

**R 408.30554**

Source: 2002 AACs.

**R 408.30555**

Source: 2003 AACs.

**R 408.30556**

Source: 2014 AACs.

**R 408.30557**

Source: 2010 AACs.

**R 408.30558**

Source: 2016 AACs.

**R 408.30559**

Source: 2016 AACs.

**R 408.30560**

Source: 2014 AACs.

**R 408.30561**

Source: 2016 AACs.

**R 408.30562**

Source: 2008 AACs.

**R 408.30563**

Source: 2016 AACs.

**R 408.30564**

Source: 2014 AACs.

**R 408.30565**

Source: 2008 AACs.

**R 408.30565a**

Source: 2016 AACs.

**R 408.30566**

Source: 2016 AACs.

**R 408.30567**

Source: 2003 AACs.

**R 408.30568**

Source: 2014 AACs.

**R 408.30569**

**Annual Administrative Code Supplement  
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Source: 2016 AACs.

**R 408.30570**

Source: 2014 AACs.

**R 408.30571**

Source: 2008 AACs.

**R 408.30572**

Source: 2014 AACs.

**R 408.30573**

Source: 2014 AACs.

**R 408.30575**

Source: 2016 AACs.

**R 408.30575**

Source: 2014 AACs.

**R 408.30576**

Source: 2014 AACs.

**R 408.30577**

Source: 2016 AACs.

**PART 6. MOBILE HOME CODE**

**R 408.30601**

Source: 1998-2000 AACs.

**R 408.30611**

Source: 1998-2000 AACs.

**R 408.30616**

Source: 1998-2000 AACs.

**R 408.30621**

Source: 1998-2000 AACs.

**R 408.30626**

Source: 1998-2000 AACs.

**R 408.30631**

Source: 1998-2000 AACs.

**R 408.30636**

Source: 1998-2000 AACs.

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**PART 7. PLUMBING CODE**

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**AMENDMENTS AND ADDITIONS TO BASIC PLUMBING CODE**

**R 408.30701 Applicable code.**

Rule 701. Rules governing the installation, replacement, alteration, relocation, and use of plumbing systems or plumbing materials are those contained in the international plumbing code, 2021 second printing edition, including appendices B, C, D, and E, except for sections 103.1, 103.2, 103.3, 104.2, 104.5 to 104.7, 104.8, 104.8.1, 106.3, 106.3.1, 106.3.2, 106.5.5, 108.2.5, 108.2.5.1, 108.2.5.2, 109.2 to 109.5, 113.1 to 113.4, 114.1 to 114.4, 115.3, 404.2, 404.3, 602.3 to 602.3.5.1, 608.18 to 608.18.8, 712.3.3.1, 712.3.3.2, 715.1 to 715.4, 802.4.3.1, 1106.3, 1106.6, 1301 to 1304.4.2, 1401 to 1403.2.1 and tables 608.18.1, 1106.3, and 1106.6. With the exceptions noted, the code is adopted in these rules by reference. All references to the International Building Code, International Residential Code, International Energy Conservation Code, National Electrical Code, International Mechanical Code, and International Plumbing Code mean the Michigan Building Code, Michigan Residential Code, Michigan Energy Code, Michigan Electrical Code, Michigan Mechanical Code, and Michigan Plumbing Code, respectively. The code is available for inspection, and purchase at the Lansing office of the Michigan Department of Licensing and Regulatory Affairs, Bureau of Construction Codes, 611 West Ottawa Street, First Floor Ottawa Building, Lansing, Michigan 48933. The code may be purchased from the International Code Council, through the bureau's website at [www.michigan.gov/bcc](http://www.michigan.gov/bcc), at a cost as of the time of adoption of these rules of \$87.50 for each code book.

History: 1979 AC; 1980 AACS; 1982 AACS; 1985 AACS; 1989 AACS; 1992 AACS; 1998-2000 AACS; 2001 AACS; 2003 AACS; 2007 AACS; 2010 AACS; 2013 AACS; 2016 AACS; 2021 AACS; 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30709**

**Source:** 1979 AC.

**R 408.30711 Title and scope.**

Rule 711. Sections 101.1, 101.2, and 101.3 of the code are amended to read as follows:

101.1. Title. This part shall be known as the Michigan plumbing code and is to be referred to as "the plumbing code" or "the code." This part shall control all matters concerning the installation, replacement, alteration, relocation, and use of plumbing systems or plumbing materials as defined in this code and shall apply to existing or proposed buildings and structures in this state.

101.2. Scope. The design and installation of plumbing systems, including sanitary and storm drainage, sanitary facilities, medical gas systems, water supplies, water service, and storm water and sewage disposal in and exiting buildings, shall comply with the requirements of the code. The design and installation of gas piping, chilled water piping in connection with refrigeration process and comfort cooling, and hot water piping in connection with building heating systems shall conform to the Michigan mechanical code. The design and installation of all fire sprinkler systems and standpipe systems shall conform to the Michigan building code. Water and drainage connections to such installations shall be made in accordance with the requirements of the code.

Exception: Detached 1-and 2-family dwellings and multiple single-family dwellings, such as townhouses, not more than 3 stories high with separate means of egress and their accessory structures shall comply with the Michigan residential code.

101.3. Intent. The purpose of this code and the Stille-DeRossett-Hale single state construction code act, 1972 PA 230, MCL 125.1501 to 125.1531 is to establish minimum standards to provide a reasonable level of safety, health, property protection, and public welfare by regulating and controlling the design, construction, installation, quality of materials, location, and operation and maintenance or use of plumbing equipment and systems. The Stille-DeRossett-Hale single state construction code act, 1972 PA 230, MCL 125.1501 to 125.1531, takes precedence over all provisions of this code.

History: 1979 AC; 1980 AACS; 1982 AACS; 1998-2000 AACS; 2001 AACS; 2010 AACS; 2013 AACS; 2021 AACS; 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30712**

**Source:** 2001 AACS.

**R 408.30713**

**Source:** 2016 AACS.



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**R 408.30714**

**Source:** 2010 AACS.

**R 408.30715**

**Source:** 2021 AACS.

**R 408.30716 Fees.**

Rule 716. Section 109.1 of the code is amended to read as follows:

109.1. Fees. The fees prescribed by the act shall be paid to the enforcing agency of the jurisdiction before a permit to begin work for new construction, alteration, removal, demolition, or other building operation may be issued. In addition, an amendment to a permit necessitating an additional fee shall not be approved until the additional fee is paid. The authority having jurisdiction may withhold issuance of any newly requested permits to an individual who has outstanding permit fees owed to that authority having jurisdiction.

History: 1982 AACS; 1998-2000 AACS; 2001 AACS; 2003 AACS; 2007 AACS; 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30717**

**Source:** 2021 AACS.

**R 408.30718**

**Source:** 2021 AACS.

**R 408.30719**

**Source:** 2021 AACS.

**R 408.30720**

**Source:** 2021 AACS.

**R 408.30721 Required tests.**

Rule 721. Sections 309.3 and 312.1 of the code are amended and section 312.3 is added to read as follows:

309.3. Flood hazard areas subject to high-velocity wave action. Structures located in flood hazard areas subject to high-velocity wave action shall meet the requirements of section 309.2. The plumbing systems, pipes, and fixtures shall not be mounted on or penetrate through walls intended to break away under flood loads.

312.1. Required tests. The permit holder shall make the applicable tests prescribed in sections 312.2 to 312.10.2 to determine compliance with the code. The permit holder shall give reasonable advance notice to the code official when the plumbing work is ready for testing. The equipment, material, power, and labor necessary for the inspection and test shall be furnished by the permit holder and the permit holder shall be responsible for determining that the work will withstand the test pressure prescribed in this rule. All plumbing system piping shall be tested with either water or, for piping systems other than plastic, by air. After the plumbing fixtures have been set and their traps filled with water, the entire drainage system shall be submitted to final tests. The code official shall require the removal of any cleanouts if necessary to ascertain if the pressure has reached all parts of the system.

Exception: Drainage and vent low pressure air tests for plastic piping systems shall be acceptable as prescribed in section 312.3 of the code.

312.3 Drainage and vent air test. An air test shall be made by forcing air into the system until there is a uniform gauge pressure of 5 psi (34.5 kPa) or sufficient to balance a 10-inch (254 mm) column of mercury. This pressure shall be held for a test period of not less than 15 minutes. Any adjustments to the test pressure required because of changes in ambient temperatures or the seating of gaskets shall be made before the beginning of the test period.

History: 2003 AACS; 2010 AACS; 2013 AACS; 2016 AACS.

Editor's Note: An obvious error in R 408.30721 was corrected at the request of the promulgating agency, pursuant to Section 56 of 1969 PA 306, as amended by 2000 PA 262, MCL 24.256. The rule containing the error was published in *Annual Administrative Code Supplement*, 2016. The memorandum requesting the correction was published in *Michigan Register*, 2024 MR 1.

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**R 408.30722**

**Source:** 2013 AACS.

**R 408.30723**

**Source:** 2013 AACS.

**R 408.30724**

**Source:** 2016 AACS.

**R 408.30725 Industrial or commercial wastes.**

Rule 725. Section 302.2 of the code is amended to read as follows:

302.2. Industrial or commercial wastes. Industrial or commercial wastes shall not be introduced into the public sewer or private disposal system without receiving prior approval in the following manner:

(1) Industrial or commercial wastes discharged to a public sewer system are subject to review, approval, and regulation by the owner of the sewage treatment system under the authority of the federal water pollution control act of 1972, as amended, 33 U.S.C.1251 et seq., and sections 3101 to 3119 of Act No. 451 of the Public Acts of 1994, as amended, being 324.3101 to 324.3119 of the Michigan Compiled Laws.

(2) Industrial or commercial wastes discharged to an on-site disposal system are subject to review, approval, and regulation by the Michigan department of environmental quality under the authority of sections 3101 to 3119 of Act No.

451 of the Public Acts of 1994, as amended, being 324.3101 to 324.3119 of the Michigan Compiled Laws.

(3) Industrial or commercial wastes discharged to an on-site holding tank are subject to review, approval, and regulation under sections 3101 to 3119, 11101 to 11152, and 12101 to 12118 of Act No. 451 of the Public Acts of 1994, as amended, being 324.3101 to 324.3119, 324.11101 to 324.11152 and 324.12101 to 324.12118 of the Michigan Compiled Laws, and the federal resource conservation and recovery act of 1976, as amended, 42 U.S.C.6901 et seq.

**History:** 1979 AC; 1982 AACS; 1985 AACS; 1989 AACS; 1998-2000 AACS.

Editor's Note: An obvious error in R 408.30725 was corrected at the request of the promulgating agency, pursuant to Section 56 of 1969 PA 306, as amended by 2000 PA 262, MCL 24.256. The rule containing the error was published in Annual Administrative Code Supplement, 1998-2000. The memorandum requesting the correction was published in Michigan Register, 2024 MR 1.

**R 408.30725a**

**Source:** 1998-2000 AACS.

**R 408.30725b**

**Source:** 1998-2000 AACS.

**R 408.30725c**

**Source:** 2013 AACS.

**R 408.30725d Type of fixtures.**

Rule 725d. Section 915.1 is added to the code to read as follows:

915.1. Type of fixtures. A combination waste and vent system shall not serve fixtures other than floor drains, sinks, lavatories and drinking fountains. Combination waste and vent systems shall not receive the discharge from a food waste disposer or clinical sink.

**History:** 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30725e Fixture traps.**

Rule 725e. Section 1002.1 is added to the code to read as follows:

1002.1. Fixture traps. Each plumbing fixture shall be separately trapped by a liquid-seal trap, except as otherwise allowed by this code. The vertical distance from the fixture outlet to the trap weir shall not exceed 24 inches, 609.6 mm, and the horizontal distance shall not exceed 30 inches, 762 mm, measured from the centerline of the fixture outlet to the centerline of the inlet of the trap. The height of a clothes washer standpipe above a trap shall conform to section 802.4.3. A fixture shall not be double trapped.

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Exceptions:

1. This section shall not apply to fixtures with integral traps.
2. A combination plumbing fixture is allowed to be installed on 1 trap, provided that 1 compartment is not more than 6 inches, 152 mm, deeper than the other compartment and the waste outlets are not more than 30 inches, 762 mm, apart.
3. A grease interceptor intended to serve as a fixture trap in accordance with the manufacturer's installation instructions shall be allowed to serve as the trap for a single fixture or a combination sink of not more than 3 compartments where the vertical distance from the fixture outlet to the inlet of the interceptor does not exceed 30 inches, 762 mm, and the developed length of the waste pipe from the most upstream fixture outlet to the inlet of the interceptor does not exceed 60 inches, 1524 mm.
4. Floor drains in multilevel parking structures that discharge to a building storm sewer shall not be required to be individually trapped. Where floor drains in multilevel parking structures are required to discharge to a combined building sewer system, the floor drains shall not be required to be individually trapped provided that they are connected to a main trap in accordance with section 1103.1.

History: 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30725f Inspection and testing of backflow prevention assemblies.**

Rule 725f. Section 312.10 is added to the code to read as follows:

312.10. Inspection and testing of backflow prevention assemblies. Inspection and testing shall comply with section 312.10.1 and 312.10.2

History: 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30725g Inspections.**

Rule 725g. Section 312.10.1 is added to the code to read as follows:

312.10.1. Inspections. Inspections shall be made of all backflow prevention assemblies and air gaps after installation or relocation to determine whether the assemblies are operable and air gaps exist.

History: 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30725h Testing.**

Rule 725h. Section 312.10.2 is added to the code to read as follows:

312.10.2. Testing. Reduced pressure principle, double check, pressure vacuum breaker, reduced pressure detector fire protection, double check detector fire protection, and spill-resistant vacuum breaker backflow preventer assemblies and hose connection backflow preventers shall be tested at the time of installation, immediately after repairs or at the time of relocation. Test gauges shall comply with ASSE 1064. The testing procedure shall be performed in accordance with 1 of the following standards:

- (a) ASSE 5013.
- (b) ASSE 5015.
- (c) ASSE 5020.
- (d) ASSE 5047.
- (e) ASSE 5048.
- (f) ASSE 5052.
- (g) ASSE 5056.
- (h) CSA B64.10.
- (i) CSA B64.10.1.

History: 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30726**

**Source:** 2021 AACS.

**R 408.30726a Pipe fittings.**

Rule 726a. Section 702.4 is added to the code to read as follows:

Table 702.4

PIPE FITTINGS

MATERIAL	STANDARD
Acrylonitrile butadiene styrene (ABS) plastic pipe in IPS diameters	ASME A112.4.4; ASTM D2661; ASTM F628; CSA B181.1

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Acrylonitrile butadiene styrene (ABS) plastic pipe in sewer and drain diameters	ASTM D2751
Cast iron	ASME B16.4; ASME B16.12; ASTM A74; ASTM A888; CISPI 301
Copper or Copper alloy	ASME B16.15; ASME B16.18; ASME B16.22; ASME B16.23; ASME B16.26; ASME B16.29
Galvanized steel pipe	ASTM A53
Glass	ASTM C1053
Gray iron and ductile iron	AWWA C110/A21.10
Polyethylene	ASTM D2683
Polyolefin	ASTM F1412; CSA B181.3
Polyvinyl chloride (PVC) plastic in IPS diameters	ASME A112.4.4; ASTM D2665; ASTM F1866
Polyvinyl chloride (PVC) plastic pipe in sewer and drain diameters	ASTM D3034
Polyvinyl chloride (PVC) plastic pipe with a 3.25-inch O.D.	ASTM D2949
Polyvinylidene fluoride (PVDF) plastic pipe	ASTM F1673; CSA B181.3
Stainless steel drainage system, Types 304 and 316L	ASME A112.3.1
Steel	ASME B16.9; ASME B16.11; ASME B16.28
Vitrified clay	ASTM C700

History: 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30727 Water distribution pipe.**

Rule 727. Table 605.4 of the code is amended to read as follows:

Table 605.4

**WATER DISTRIBUTION PIPE**

MATERIAL	STANDARD
Chlorinated polyvinyl chloride (CPVC) plastic pipe and tubing	ASTM D2846; ASTM F441; ASTM F442; CSA B137.6
Chlorinated polyvinyl chloride/aluminum/chlorinated polyvinyl chloride (CPVC/AL/CPVC)	ASTM F2855
Copper or copper-alloy pipe	ASTM B42; ASTM B302; ASTM B43
Copper or copper-alloy tubing (Type K, WK, L, WL, M or WM)	ASTM B75; ASTM B88; ASTM B251; ASTM B447
Cross-linked polyethylene (PEX) plastic tubing	ASTM F876; CSA B137.5
Cross-linked polyethylene/aluminum/cross-linked polyethylene (PEX-AL-PEX) pipe	ASTM F1281; ASTM F2262; CSA B137.10
Cross-linked polyethylene/aluminum/high-density polyethylene (PEX-AL-HDPE)	ASTM F1986
Ductile iron pipe	AWWA C151/A21.51; AWWA C115/A21.15
Galvanized steel pipe	ASTM A53
Polyethylene/aluminum/polyethylene (PE-AL-PE) composite pipe	ASTM F1282
Polyethylene of raised temperature (PE-RT) plastic tubing	ASTM F2769; CSA B137.18
Polypropylene (PP) plastic pipe or tubing	ASTM F2389; CSA B137.11
Stainless steel pipe (Type 304/304L)	ASTM A312; ASTM A778
Stainless steel pipe (Type 316/316L)	ASTM A312; ASTM A778

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(REFERENCE R 408.30732, SECTION 605.2.1)

History: 2021 AACS; 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30727a Location of full-open valve.**

Rule 727a. Section 606.1 is added to the code to read as follows:

606.1. Location of full-open valve. Full-open valves shall be installed in the following locations:

1. On the building water service pipe from the public water supply near the curb.
2. On the water distribution supply pipe at the entrance into the structure.
  - 2.1. In multiple tenant buildings, where a common water supply piping system is installed to supply spaces other than 1 and 2 family dwellings, a main shutoff valve shall be provided for each tenant or space.
3. On the discharge side of every water meter.
4. On the base of every water riser pipe in occupancies other than multiple-family residential occupancies that are 2 stories or less in height and in 1 and 2 family residential occupancies.
5. On the top of every water down-feed pipe in occupancies other than 1 and 2 family residential occupancies.
6. On the entrance to every water supply pipe to a dwelling unit, except where supplying a single fixture equipped with individual stops.
7. On the water supply pipe to a gravity or pressurized water tank.
8. On the water supply pipe to every water heater.

History: 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30727b Labeling of water distribution pipes in bundles.**

Rule 727b. Section 606.7 is added to the code to read as follows:

606.7. Labeling of water distribution pipes in bundles. Where water distribution piping is bundled at installation, each pipe in the bundle shall be identified using stenciling, commercially available pipe labels, or approved color-coded piping materials. The identification shall indicate the pipe contents and the direction of flow in the pipe. The interval of the identification markings on the pipe shall not exceed 25 feet, 7620mm. There shall be at least 1 identification label on each pipe in each room, space, or story.

History: 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30727c Tempered water temperature control.**

Rule 727c. Section 607.1.2 is added to the code to read as follows:

607.1.2. Tempered water temperature control. Tempered water shall be controlled by 1 of the following:

1. A limiting device conforming to ASSE 1070/ASME A112.1070/CSA B125.70 and set to not greater than 110 degrees Fahrenheit or 43 degrees Celsius.
2. A thermostatic mixing valve conforming to ASSE 1017.
3. A water heater conforming to ASSE 1082.
4. A water heater conforming to ASSE 1084.
5. Emergency eye wash tepid water limits shall not be less than 60 degrees Fahrenheit or 15.6 degrees Celsius and not greater than 100 degrees Fahrenheit or 37.8 degrees Celsius and conform to ASSE 1071.

History: 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30728**

**Source:** 2013 AACS.

**R 408.30729 Water service pipe.**

Rule 729. Table 605.3 and section 609.3 of the code are amended to read as follows:

Table 605.3

WATER SERVICE PIPE

MATERIAL	STANDARD
Acrylonitrile butadiene styrene (ABS) plastic pipe	ASTM D1527; ASTM D2282
Chlorinated polyvinyl chloride (CPVC) plastic pipe	ASTM D2846; ASTM F441; ASTM F442; CSA B137.6
Chlorinated polyvinyl chloride/aluminum/chlorinated polyvinyl chloride	ASTM F2855

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(CPVC/AL/CPVC)	
Copper or copper-alloy pipe	ASTM B42; ASTM B302
Copper or copper-alloy tubing (Type K, WK, L, WL, M or WM)	ASTM B75; ASTM B88; ASTM B251; ASTM B447
Cross-linked polyethylene (PEX) plastic pipe and tubing	ASTM F876; AWWA C904; CSA B137.5
Cross-linked polyethylene/aluminum/cross-linked polyethylene (PEX-AS-PEX) pipe	ASTM F1281; ASTM F2262; B137.10
Cross-linked polyethylene/aluminum/high-density polyethylene (PEX-AL-HDPE)	ASTM F1986
Ductile iron water pipe	AWWA C151/A21.51; AWWA C115/A21.15
Galvanized steel pipe	ASTM A53
Polyethylene (PE) plastic pipe	ASTM D2239; ASTM D3035; AWWA C901; CSA B137.11
Polyethylene (PE) plastic tubing	ASTM D2737; AWWA C901; CSA B137.1
Polyethylene/aluminum/polyethylene (PE-AL-PE) pipe	ASTM F1282; CSA B 137.9
Polyethylene of raised temperature (PE-RT) plastic tubing	ASTM F2769; CSA B137.18
Polypropylene (PP) plastic pipe or tubing	ASTM F2389; CSA B137.11
Polyvinyl chloride (PVC) plastic pipe	ASTM D1785; ASTM D2241; ASTM D2672; CSA B137.3
Stainless steel pipe (Type 304/304L)	ASTM A312; ASTM A778
Stainless steel pipe (Type 316/316L)	ASTM A312; ASTM A778
Chlorinated polyvinyl chloride (CPVC) plastic pipe and tubing	ASTM D2846; ASTM F441; ASTM F442; CSA B137.6
Chlorinated polyvinyl chloride/aluminum/chlorinated polyvinyl chloride (CPVC/AL/CPVC)	ASTM F2855
Copper or copper-alloy pipe	ASTM B-42; ASTM B302; ASTM B43
Copper or copper-alloy tubing (Type K, WK, L, WL, M or WM)	ASTM B75; ASTM B88; ASTM B251; ASTM B447
Cross-linked polyethylene (PEX) plastic tubing	ASTM F876; CSA B137.5
Cross-linked polyethylene/aluminum/cross-linked polyethylene (PEX-AL-PEX) pipe	ASTM F1281; ASTM F2262; CSA B137.10
Cross-linked polyethylene/aluminum/high-density polyethylene (PEX-AL-HDPE)	ASTM F1986
Ductile iron pipe	AWWA C151/A21.51; AWWA C115/A21.15
Polyethylene/aluminum/polyethylene (PE-AL-PE) composite pipe	ASTM F1282
Polyethylene of raised temperature (PE-RT) plastic tubing	ASTM F2769; CSA B137.158
Polypropylene (PP) plastic pipe or tubing	ASTM F2389; CSA B137.11
Stainless steel pipe (Type 304/304L)	ASTM A312; ASTM A778
Stainless steel pipe (Type 316/316L)	ASTM A312; ASTM A778

(REFERENCE R 408.30732, SECTION 605.2.1)

609.3 Hot water. Hot water shall be provided to supply all of the hospital fixtures, kitchen, and laundry requirements. Special fixtures and equipment shall have hot water supplied at a temperature specified by the manufacturer. The hot water system shall be installed in accordance with section 607.

History: 2021 AACs; History: 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30729a. Pipe fitting.**

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Rule 729a. Table 605.5 is added to the code to read as follows:

Table 605.5

**PIPE FITTINGS**

MATERIAL	STANDARD
Acrylonitrile butadiene styrene (ABS) plastic	ASTM D2468
Cast iron	ASME B16.4
Chlorinated polyvinyl chloride (CPVC) Plastic	ASSE 1061; ASTM D2846; ASTM F437; ASTM F438; ASTM F439; CSA B137.6
Copper or copper alloy	ASME B16.15; ASME B16.18; ASME B16.22; ASME B16.26; ASME B16.51; ASSE 1061; ASTM F1476; ASTM F1548; ASTM F3226
Cross-linked polyethylene/aluminum/high-density polyethylene (PEX-AL-HDPE)	ASTM F1986
Fittings for cross-linked polyethylene (PEX) plastic tubing	ASSE 1061; ASTM F877; ASTM F1807; ASTM F 1960; ASTM F2080; ASTM F2098; ASTM F2159; ASTM 2434; ASTM F2735; CSA B137.5
Fittings for polyethylene of raised temperature (PE-RT) plastic tubing	ASSE 1061; ASTM D3261; ASTM F1807; ASTM 2098; ASTM F2159; ASTM 2735; ASTM F2769; CSA B137.18
Galvanized steel pipe	ASTM A53
Gray iron and ductile iron	ASTM F1476; ASTM F1548; AWWA C110/A21.10; AWWA C153/A21.53
Insert fittings for polyethylene/aluminum/polyethylene (PE-AL-PE) and cross-linked polyethylene/aluminum/cross-linked polyethylene (PEX-AL-PEX)	ASTM F1281; ASTM F1282; ASTM F1974; CSA B137.9; CSA B137.10
Malleable iron	ASME B16.3
Metal (brass) insert fittings for polyethylene/aluminum/polyethylene (PE-AL-PE) and cross-linked polyethylene/aluminum/cross-linked polyethylene (PEX-AL-PEX)	ASTM F1974
Polyethylene (PE) plastic pipe	ASTM D2609; ASTM D2683; ASTM D3261; ASTM F1055; CSA B137.1
Polypropylene (PP) plastic pipe or tubing	ASTM F2389; CSA B137.11
Polyvinyl chloride (PVC) plastic	ASTM D2464; ASTM D2466; ASTM D2467; CSA B137.2; CSA B137.3
Stainless steel (Type 304/304L)	ASTM A312; ASTM A778; ASTM F1476; ASTM F1548; ASTM F3226
Stainless steel (Type 316/316L)	ASTM A312; ASTM A778; ASTM F1476; ASTM F1548; ASTM F3226
Steel	ASME B16.9, ASME B16.11; ASME B16.28; ASTM F1476; ASTM F1548

(REFERENCE R 408.30732, SECTION 605.2.1)

History: 2023 MR 22, Eff. Mar. 12, 2024.



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**R 408.30729b Manufactured pipe nipples.**

Rule 729b. Table 605.8 is added to the code to read as follows:

Table 605.8

MANUFACTURED PIPE NIPPLES

MATERIAL	STANDARD
Copper, copper alloy, and chromium-plated	ASTM B687
Galvanized steel pipe	ASTM A53
Steel	ASTM A773

(REFERENCE R 408.30732, SECTION 605.2.1)

History: 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30730**

**Source:** 2016 AACS.

**R 408.30731**

**Source:** 2016 AACS.

**R 408.30732 Lead content of drinking water pipe and fittings.**

Rule 732. Section 605.2.1 is added to the code to read as follows:

605.2.1. Lead content of drinking water pipe and fittings.

Pipe, pipe fittings, joints, valves, faucets, and fixture fittings utilized to supply water for drinking or cooking purposes shall comply with NSF 372 and shall have a weighted average lead content of 0.25% or less.

History: 1979 AC; 1982 AACS; 1985 AACS; 1997 AACS; 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30733**

**Source:** 1997 AACS.

**R 408.30734**

**Source:** 1998-2000 AACS.

**R 408.30735**

**Source:** 2016 AACS.

**R 408.30736 Water supply.**

Rule 736. Section 411.3 is added to the code to read as follows:

411.3. Water supply. Where hot and cold water is supplied to an emergency shower or eyewash station, the temperature of the water supply shall only be controlled by a temperature-actuated mixing valve complying with ASSE 1071. Where water is supplied directly to an emergency shower or eyewash station from a water heater, the water heater shall comply with ASSE 1085.

History: 1979 AC; 1985 AACS; 1997 AACS; 2023 MR 22, Eff. Mar. 12, 2024.

Editor's Note: An obvious error in R 408.30736 was corrected at the request of the promulgating agency, pursuant to Section 56 of 1969 PA 306, as amended by 2000 PA 262, MCL 24.256. The rule containing the error was published in *Michigan Register*, 2023 MR 22. The memorandum requesting the correction was published in *Michigan Register*, 2024 MR 1.

**R 408.30737**

**Source:** 1998-2000 AACS.

**R 408.30738**

**Source:** 1997 AACS.

**R 408.30738a**

**Source:** 1998-2000 AACS.



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- R 408.30739**  
Source: 1997 AACCS.
- R 408.30740**  
Source: 1998-2000 AACCS.
- R 408.30740a**  
Source: 2003 AACCS.
- R 408.30740b**  
Source: 1998-2000 AACCS.
- R 408.30740c**  
Source: 2001 AACCS.
- R 408.30741c**  
Source: 2021 AACCS.
- R 408.30741a**  
Source: 1997 AACCS.
- R 408.30741b**  
Source: 1997 AACCS.
- R 408.30741c**  
Source: 2013 AACCS.
- R 408.30742,**  
Source: 1997 AACCS.
- R 408.30743**  
Source: 1997 AACCS.
- R 408.30743a**  
Source: 1998-2000 AACCS.
- R 408.30743b**  
Source: 1997 AACCS.
- R 408.30743c**  
Source: 1998-2000 AACCS.
- R 408.30744**  
Source: 1997 AACCS.
- R 408.30744a**  
Source: 1998-2000 AACCS.
- R 408.30744b**  
Source: 1998-2000 AACCS.
- R 408.30744c**  
Source: 1998-2000 AACCS.
- R 408.30744d**  
Source: 1998-2000 AACCS.
- R 408.30744e**

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**Source:** 2003 AACs.

**R 408.30744f**

**Source:** 1998-2000 AACs.

**R 408.30745**

**Source:** 1997 AACs.

**R 408.30745a**

**Source:** 1997 AACs.

**R 408.30745b**

**Source:** 1997 AACs.

**R 408.30746**

**Source:** 1998-2000 AACs.

**R 408.30746a**

**Source:** 1997 AACs.

**R 408.30746b**

**Source:** 1997 AACs.

**R 408.30747**

**Source:** 1997 AACs.

**R 408.30747a**

**Source:** 1998-2000 AACs.

**R 408.30747b**

**Source:** 1998-2000 AACs.

**R 408.30747c**

**Source:** 1997 AACs.

**R 408.30748**

**Source:** 1998-2000 AACs.

**R 408.30748a**

**Source:** 1997 AACs.

**R 408.30748b**

**Source:** 1997 AACs.

**R 408.30748c**

**Source:** 1997 AACs.

**R 408.30749**

**Source:** 2013 AACs.

**R 408.30749a**

**Source:** 1998-2000 AACs.

**R 408.30750**

**Source:** 1998-2000 AACs.

**R 408.30751**

**Source:** 1997 AACs.

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**R 408.30751a**

Source: 1998-2000 AACCS.

**R 408.30752**

Source: 1997 AACCS.

**R 408.30752a**

Source: 1997 AACCS.

**R 408.30753a**

Source: 2013 AACCS.

**R 408.30753b Roof extension unprotected.**

Rule 753b. Section 903.1.1 is added to the code to read as follows:

903.1.1. Roof extension unprotected. Open vent pipes that extend through a roof shall be terminated not less than 12 inches, 304.8 mm, above the roof.

History: 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30754**

Source: 1997 AACCS.

**R 408.30754a**

Source: 2013 AACCS.

**R 408.30754b**

Source: 2013 AACCS.

**R 408.30754c**

Source: 1998-2000 AACCS.

**R 408.30755 Storm drainage.**

Rule 755. Table 1102.4 of the code is amended to read as follows:

TABLE 1102.4

**BUILDING STORM SEWER PIPE**

MATERIAL	STANDARD
Acrylonitrile butadiene styrene (ABS) plastic pipe in IPS diameters, including Schedule 40, DR 22 (PS 200) and DR 24 (PS 140); with a solid, cellular core or composite wall.	ASTM D2661; ASTM F628; ASTM F1488; CSA B181.1; CSA B182.1
Cast-iron pipe	ASTM A74; ASTM A888; CISPI 301
Concrete pipe	ASTM C14; ASTM C76; CSA A257.1M; CSA A257.2M
Copper or copper-alloy tubing (Type K, L, M or DWV)	ASTM B75; ASTM B88; ASTM B251; ASTM B306
Polyethylene (PE) plastic pipe	ASTM F667; ASTM F2306/F2306; ASTM F2648/F2648M
Polypropylene (PP) plastic pipe	ASTM F2736; ASTM F2764; CSA B182.13
Polyvinyl chloride (PVC) plastic pipe (Type DWV, SDR26, SDR35, SDR41, PS50 or PS100) in IPS diameters, including Schedule 40, DR 22 (PS 200) and DR 24 (PS 140); with a solid, cellular core or composite wall	ASTM D2665; ASTM D3034; ASTM F891; ASTM F1488; CSA B181.2; CSA B182.2; CSA B182.4
Vitrified clay pipe	ASTM C4; ASTM C700
Stainless steel drainage systems, Type 316L	ASME A112.3.1

History: 1979 AC; 1982 AACCS; 1997 AACCS; 2021 AACCS; 2023 MR 22, Eff. Mar. 12, 2024.

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**R 408.30755a Rainfall rate conversion method.**

Rule 755a. Section 1106.2.1 is added to the code to read as follows:

1106.2.1. Rainfall rate conversion method. The rainfall rate falling on a roof surface shall be converted to a gallon per minute (L/m) flow rate in accordance with equation 11-1.

2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30756**

**Source:** 1998-2000 AACCS.

**R 408.30756a**

**Source:** 1998-2000 AACCS.

**R 408.30757**

**Source:** 2021 AACCS.

**R 408.30757a**

**Source:** 2016 AACCS.

**R 408.30758 Minimum number of fixtures.**

Rule 758. Sections 403.1, 403.1.1 and 403.3.1 and Table 403.1 of the code are amended to read as follows:

403.1. Minimum number of fixtures. Plumbing fixtures shall be provided for the type of occupancy and in the minimum number shown in Table 403.1. Types of occupancies not shown in Table 403.1 shall be considered individually by the code official. The number of occupants shall be determined in accordance with the Michigan building code. Occupancy classification shall be determined in accordance with the Michigan building code.

Exceptions:

1. The actual number of occupants determined by a supporting affidavit from the owner or agency.
2. Hand washing sinks in food service establishments shall be provided in accordance with section 6101 of the food law, 2000 PA 92, MCL 289.6101, incorporating by reference the United States Food and Drug Administration (FDA) food code 5-204.11 related to the location and placement of hand washing sinks.
3. Toilet facilities for public swimming pools shall be provided in accordance with R 325.2111 to R 325.2199.
4. Toilet facilities for childcare center, day care center, and nursery school facilities shall be provided in accordance with R 400.8101 to R 400.8840.
5. Toilet facilities for children's camps shall be provided in accordance with R 400.11101 to R 400.11413.

403.1.1 Fixture calculations. To determine the occupant load of each sex, the total occupant load shall be divided in half. To determine the required number of fixtures, the fixture ratio or ratios for each fixture type shall be applied to the occupant load of each sex in accordance with table 403.1. Fractional numbers resulting from applying the fixture ratios of table 403.1 shall be rounded up to the next whole number. For calculations involving multiple occupancies, the fractional numbers for each occupancy shall be summed and rounded up to the next whole number.

Exceptions:

1. The total occupant load shall not be required to be divided in half where approved statistical data indicate a distribution of the sexes of other than 50% of each sex.
  2. Where multiple-user facilities are designed to serve all genders, the minimum fixtures count shall be calculated at 100%, based on total occupant load. The minimum number of required plumbing fixtures shall be in accordance with table 403.1. In multiple-user facilities, each fixture type shall be in accordance with ICC A117.1 and each urinal that is provided shall be located in a stall.
  3. Distribution of the sexes is not required where single-user water closets and bathing room fixtures are provided in accordance with section 403.1.2.
- 403.3.1. Access. The route to the public toilet facilities required by section 403.3 shall not pass through kitchens, storage rooms, or closets. Access to the required facilities shall be from within the building. All routes shall comply with the accessibility requirements of the Michigan building code. The public shall have access to the required toilet facilities at all times that the building is occupied.

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TABLE 403.1  
MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES<sup>a</sup>  
(See Sections 403.1.1 and 403.2)

NO.	CLASSIFICATION	OCCUPANCY	DESCRIPTION	WATER CLOSETS (URINALS SEE SECTION 419.2)		LAVATORIES		BATHTUBS/ SHOWERS	DRINKING FOUNTAIN <sup>e,f</sup> (SEE SECTION 410.1)	OTHER
				MALE	FEMALE	MALE	FEMALE			
1	Assembly	A-1 <sup>d</sup>	Theaters and other buildings for the performing arts and motion pictures	1 per 125	1 per 65	1 per 200			1 per 500	1 service sink
		A-2 <sup>d</sup>	Nightclubs, bars, taverns, dance halls, and buildings for similar purposes	1 per 40	1 per 40	1 per 75			1 per 500	1 service sink
			Restaurants, banquet halls and food courts	1 per 75	1 per 75	1 per 200			1 per 500	1 service sink
			Casino gaming areas	1 per 100 for the first 400 and 1 per 250 for the remainder exceeding 400	1 per 50 for the first 400 and 1 per 150 for the remainder exceeding 400	1 per 250 for the first 750 and 1 per 500 for the remainder exceeding 750		—	1 per 1,000	1 service sink
		A-3 <sup>d</sup>	Auditoriums without permanent seating, art galleries, exhibition halls, museums, lecture halls, libraries, arcades, and gymnasiums	1 per 125	1 per 65	1 per 200			1 per 500	1 service sink
			Passenger terminals and	1 per 500	1 per 500	1 per 750			1 per 1,000	1 service sink

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			transportation facilities						
			Places of worship and other religious services.	1 per 150	1 per 75	1 per 200		1 per 1,000	1 service sink
		A-4	Coliseums, arenas, skating rinks, pools, and tennis courts for indoor sporting events and activities	1 per 75 for the first 1,500 and 1 per 120 for the remainder exceeding 1,500	1 per 40 for the first 1,520 and 1 per 60 for the remainder exceeding 1,520	1 per 200	1 per 150	1 per 1,000	1 service sink
		A-5	Stadiums, amusement parks, bleachers, and grandstands for outdoor sporting events and activities	1 per 75 for the first 1,500 and 1 per 120 for the remainder exceeding 1,500	1 per 40 for the first 1,520 and 1 per 120 for the remainder exceeding 1,520	1 per 200	1 per 150	1 per 1,000	1 service sink
2	Business	B	Buildings for the transaction of business, professional services, other services involving merchandise, office buildings, banks, light industrial, and similar uses	1 per 25 for the first 50 and 1 per 50 for the remainder exceeding 50	1 per 40 for the first 80 and 1 per 80 for the remainder exceeding 80			1 per 100	1 service sink <sup>e</sup>
3	Educational	E	Educational facilities	1 per 50	1 per 50			1 per 100	1 service sink

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4	Factory and industrial	F-1 and F-2	Structures in which occupants are engaged in work fabricating, assembling, or processing of products or materials	1 per 100	1 per 100		1 per 400	1 service sink
5	Institutional	I-1	Custodial care facilities	1 per 10	1 per 10	1 per 8	1 per 100	1 service sink
		I-2	Medical care recipients in hospitals and nursing homes	1 per room c	1 per room c	1 per 15	1 per 100	1 service sink per floor
			Employees in hospitals and nursing homes <sup>b</sup>	1 per 25	1 per 35		1 per 100	
			Visitors in hospitals and nursing homes	1 per 75	1 per 100		1 per 500	
		I-3	Prisons <sup>b</sup>	1 per cell	1 per cell	1 per 15	1 per 100	1 service sink
			Reformatories, detention centers, and correctional centers <sup>b</sup>	1 per 15	1 per 15	1 per 15	1 per 100	1 service sink
			Employees in reformatories, detention centers and correctional centers <sup>b</sup>	1 per 25	1 per 35	-	1 per 100	-
		I-4	Adult day care and childcare	1 per 15	1 per 15	1	1 per 100	1 service sink
6	Mercantile	M-1	Retail stores, service stations, shops, salesrooms, markets and shopping centers	1 per 500	1 per 750	—	1 per 1,000	1 service sink

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7	Residential	R-1	Hotels, motels, and boarding houses (transient)	1 per sleeping unit	1 per sleeping unit	1 per sleeping unit	—	1 service sink
		R-2	Dormitories, fraternities, sororities and boarding houses (not transient)	1 per 10	1 per 10	1 per 8	1 per 100	1 service sink
		R-2	Apartment house	1 per dwelling unit	1 per dwelling unit	1 per dwelling unit	—	1 kitchen sink per dwelling unit; 1 automatic clothes washer connection per 20 dwelling units
		R-3	Congregate living facilities with 16 or fewer individuals	1 per 10	1 per 10	1 per 8	1 per 100	1 service sink
		R-3	1 and 2 family dwelling and lodging houses with five or fewer guestrooms	1 per dwelling unit	1 per dwelling unit	1 per dwelling unit	—	1 kitchen sink per dwelling unit; 1 automatic clothes washer connection per dwelling unit



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		R-4	Congregate living facilities with 16 or fewer individuals	1 per 10	1 per 10	1 per 8	1 per 100	1 service sink
8	Storage	S-1 S-2	Structure for the storage of goods, warehouses, storehouses, and freight depots. Low and moderate hazard.	1 per 100	1 per 100	—	1 per 1,000	1 service sink

- a. The fixtures shown are based on 1 fixture being the minimum required for the number of individuals indicated or any fraction of the number of individuals indicated. The number of occupants shall be determined by the International Building Code.
  - b. Toilet facilities for employees shall be separate from facilities for inmates or care patients.
  - c. A single-occupant toilet room with 1 water closet and 1 lavatory serving not more than 2 adjacent patient sleeping units shall be allowed provided that each patient sleeping unit has direct access to the toilet room and provision for privacy for the toilet room user is provided.
  - d. The occupant load for seasonal outdoor seating and entertainment areas shall be included when determining the minimum number of facilities required.
  - e. For business and mercantile classifications with an occupant load of 15 or fewer, service sinks shall not be required.
  - f. The required number and type of plumbing fixtures for outdoor public swimming pools shall be in accordance with section 609 of the International Swimming Pool and Spa Code.
- History: 2023 MR 22, Eff. Mar. 12, 2024.

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**R 408.30758a High and low drinking fountains minimum number.**

Rule 758a. Section 410.3.1 is added to the code to read as follows:

410.3.1. High and low drinking fountains minimum number. Where drinking fountains are required, no fewer than 2 drinking fountains shall be provided. One drinking fountain shall comply with the requirements for people who use a wheelchair, and 1 drinking fountain shall comply with the requirements for standing individuals.

Exceptions:

1. A single drinking fountain with 2 separate spouts that complies with the requirements for individuals who use a wheelchair and standing individuals shall be allowed to be substituted for 2 separate drinking fountains.
2. Where drinking fountains are primarily for children's use, the drinking fountains for people using wheelchairs shall be allowed to comply with the children's provisions in ICC A117.1 and drinking fountains for standing children shall be allowed to have the spout at 30 inches, 762 mm, minimum above the floor.
3. Referencing building code for all height requirements of drinking fountains and water coolers.

History: 1979 AC; 1980 AACS; 1985 AACS; 1997 AACS; 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30758b Water supply.**

Rule 758b. Section 411.3 is added to the code to read as follows:

411.3. Water supply. Where hot and cold water are supplied to an emergency shower or eyewash station, the temperature of the water supply shall only be controlled by temperature-actuated mixing valve complying with ASSE 1071. Where water is supplied directly to an emergency shower or eyewash station from a water heater, the water heater shall comply with ASSE 1085, See section 607.1.2.

History: 1979 AC; 1980 AACS; 1985 AACS; 1997 AACS; 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30758c**

Source: 1997 AACS.

**R 408.30758d**

Source: 1997 AACS.

**R 408.30759**

Source: 1998-2000 AACS.

**R 408.30759a**

Source: 2001 AACS.

**R 408.30759b**

Source: 2001 AACS.

**R 408.30760**

Source: 2001 AACS.

**R 408.30761**

Source: 1998-2000 AACS.

**R 408.30761a**

Source: 1998-2000 AACS.

**R 408.30761b**

Source: 1998-2000 AACS.

**R 408.30761c**

Source: 2001 AACS.

**R 408.30762 Floor drains; public toilet rooms.**

Rule 762. Section 413.5 is added to the code to read as follows:

413.5. Floor drains; public toilet rooms. In all public toilet rooms that contain a combination of 3 or more water closets or urinals, at least 1 approved floor drain shall be installed connecting to the sanitary system. However, stall urinals may serve as

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floor drains if the entire floor can be drained to the urinals.

History: 1979 AC; 1982 AACS; 1985 AACS; 1992 AACS; 1998-2000 AACS; 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30763**

Source: 2016 AACS.

**R 408.30763a**

Source: 2013 AACS.

**R 408.30763b**

Source: 1998-2000 AACS.

**R 408.30763c**

Source: 1998-2000 AACS.

**R 408.30764**

Source: 1997 AACS.

**R 408.30765**

Source: 1997 AACS.

**R 408.30765a**

Source: 1997 AACS.

**R 408.30765b**

Source: 1997 AACS.

**R 408.30765c**

Source: 1997 AACS.

**R 408.30765d**

Source: 1997 AACS.

**R 408.30765e**

Source: 1997 AACS.

**R 408.30766**

Source: 1997 AACS.

**R 408.30766a**

Source: 1997 AACS.

**R 408.30766b**

Source: 1997 AACS.

**R 408.30766c**

Source: 1997 AACS.

**R 408.30766d**

Source: 1997 AACS.

**R 408.30767**

Source: 1997 AACS.

**R 408.30767a**

Source: 1997 AACS.

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**R 408.30768**  
Source: 1997 AACCS.

**R 408.30768a**  
Source: 1997 AACCS.

**R 408.30768b**  
Source: 1997 AACCS.

**R 408.30769**  
Source: 1997 AACCS.

**R 408.30769a**  
Source: 1997 AACCS.

**R 408.30769b**  
Source: 1997 AACCS.

**R 408.30769c**  
Source: 1997 AACCS.

**R 408.30770**  
Source: 1997 AACCS.

**R 408.30770a**  
Source: 1997 AACCS.

**R 408.30770b**  
Source: 1997 AACCS.

**R 408.30771**  
Source: 1997 AACCS.

**R 408.30771a**  
Source: 1997 AACCS.

**R 408.30771b**  
Source: 1997 AACCS.

**R 408.30771c**  
Source: 1997 AACCS.

**R 408.30771d**  
Source: 1997 AACCS.

**R 408.30771e**  
Source: 1997 AACCS.

**R 408.30772**  
Source: 1997 AACCS.

**R 408.30772a**  
Source: 1997 AACCS.

**R 408.30772b**  
Source: 1997 AACCS.

**R 408.30772c**

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**Source:** 1997 AACs.

**R 408.30772d**

**Source:** 1997 AACs.

**R 408.30772e**

**Source:** 1997 AACs.

**R 408.30773**

**Source:** 1997 AACs.

**R 408.30773a**

**Source:** 1997 AACs.

**R 408.30773b**

**Source:** 1997 AACs.

**R 408.30773c**

**Source:** 1997 AACs.

**R 408.30773d**

**Source:** 1997 AACs.

**R 408.30774**

**Source:** 1997 AACs.

**R 408.30774a**

**Source:** 1997 AACs.

**R 408.30774b**

**Source:** 1997 AACs.

**R 408.30774c**

**Source:** 1997 AACs.

**R 408.30774d**

**Source:** 1997 AACs.

**R 408.30774e**

**Source:** 1997 AACs.

**R 408.30774f**

**Source:** 1997 AACs.

**R 408.30775**

**Source:** 1997 AACs.

**R 408.30775a**

**Source:** 1997 AACs.

**R 408.30775b**

**Source:** 1997 AACs.

**R 408.30775c**

**Source:** 1997 AACs.

**R 408.30775d**

**Source:** 1997 AACs.

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- R 408.30776**  
Source: 1997 AACCS.
- R 408.30776a**  
Source: 1997 AACCS.
- R 408.30776b**  
Source: 1997 AACCS.
- R 408.30776c**  
Source: 1997 AACCS.
- R 408.30777**  
Source: 2007 AACCS.
- R 408.30777a**  
Source: 1998-2000 AACCS.
- R 408.30777b**  
Source: 1997 AACCS.
- R 408.30777c**  
Source: 1998-2000 AACCS.
- R 408.30777d**  
Source: 1998-2000 AACCS.
- R 408.30777e**  
Source: 1998-2000 AACCS.
- R 408.30778**  
Source: 1998-2000 AACCS.
- R 408.30778a**  
Source: 1998-2000 AACCS.
- R 408.30778b**  
Source: 1998-2000 AACCS.
- R 408.30778c**  
Source: 1998-2000 AACCS.
- R 408.30779**  
Source: 1998-2000 AACCS.
- R 408.30779a**  
Source: 1998-2000 AACCS.
- R 408.30779b**  
Source: 1998-2000 AACCS.
- R 408.30780**  
Source: 1998-2000 AACCS.
- R 408.30780a**  
Source: 1998-2000 AACCS.
- R 408.30780b**

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**Source:** 1998-2000 AACS.

**R 408.30780c**

**Source:** 1997 AACS.

**R 408.30781**

**Source:** 1997 AACS.

**R 408.30782**

**Source:** 1997 AACS.

**R 408.30783**

**Source:** 1997 AACS.

**R 408.30784**

**Source:** 1997 AACS.

**R 408.30785**

**Source:** 2010 AACS.

**R 408.30786**

**Source:** 2016 AACS.

**R 408.30788**

**Source:** 1998-2000 AACS.

**R 408.30788a**

**Source:** 1997 AACS.

**R 408.30791**

**Source:** 2021 AACS.

**R 408.30792**

**Source:** 2016 AACS.

**R 408.30793**

**Source:** 2001 AACS.

**R 408.30795**

**Source:** 2001 AACS.

**R 408.30795a**

**Source:** 2001 AACS.

**R 408.30796**

**Source:** 2001 AACS.

**DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS**

**DIRECTOR'S OFFICE**

**CONSTRUCTION CODE**

**PART 8. ELECTRICAL CODE**

**R 408.30801 National electrical code; adoptions by reference; inspection; purchase.**

Rule 801. (1) The standards contained in the national electrical code 2023 second printing edition, including TIA 70-23-1 to 70-23-13, Errata 70-23-1 to 70-23-6, and Annex H, except sections 80.2, 80.5, 80.15, 80.23, 80.27, 80.29, 80.31, 80.33, 80.35,

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and 90.6, as published by the national fire protection association (NFPA), shall govern the installation, replacement, alteration, relocation, and use of electrical systems or material. With the exceptions noted, the national electrical code is adopted in these rules by reference.

(2) All references to the ANSI/ASME A17.1 2016, safety code for elevators and escalators mean the Michigan elevator code and all references to the national electrical code mean the Michigan electrical code.

(3) NFPA 110, standard for emergency and standby power systems, 2019 edition and NFPA 111, standard on stored electrical energy emergency and standby power systems, 2019 edition, are adopted by reference in these rules.

(4) The codes are available for inspection at the Lansing office of the Michigan Department of Licensing and Regulatory Affairs, Bureau of Construction Codes, 611 West Ottawa Street, First Floor Ottawa Building, Lansing, Michigan 48933.

(5) The National Electrical Code, NFPA 110 and NFPA 111 may be purchased from the National Fire Protection Association, 1 Batterymarch Park, Quincy, Massachusetts 02169, or through the bureau's website at [www.michigan.gov/bcc](http://www.michigan.gov/bcc), at a cost as of the time of adoption of these rules of \$153.00 for the National Electrical Code, \$149.00 for the NFPA 110, and \$149.00 for the NFPA 111 each, respectively.

History: 1979 AC; 1980 AACS; 1981 AACS; 1985 AACS; 1986 AACS; 1988 AACS; 1991 AACS; 1995 AACS; 1998-2000 AACS; 2004 AACS; 2007 AACS; 2009 AACS; 2013 AACS; 2015 AACS; 2019 AACS; 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30805**

**Source:** 2019 AACS.

**R 408.30806**

**Source:** 2019 AACS.

**R 408.30807**

**Source:** 2019 AACS.

**R 408.30808 Scope.**

Rule 808. Section 80.1 is amended to read as follows:

80.1 Scope. The following are covered:

(1) The inspection of electrical installations as covered by 90.2.

(2) The review of construction plans, drawings, and specifications for electrical systems.

(3) The design, alteration, modification, construction, maintenance, and testing of electrical systems and equipment.

(4) The regulation and control of electrical installations at special events, including, but not limited to, exhibits, trade shows, amusement parks, and other similar special occupancies.

History: 2004 AACS; 2007 AACS; 2013 AACS; 2019 AACS; 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30809**

**Source:** 2007 AACS.

**R 408.30810 Authority.**

Rule 810. Section 80.13 is added to the code to read as follows:

80.13. Authority. Where used in this article, the term authority having jurisdiction shall include the electrical inspector or other individuals designated by the governing body. This code shall be administered and enforced by the authority having jurisdiction designated by the governing authority as follows:

(1) Disconnection. When the use of electrical equipment or its installations is found to be dangerous to human life or property, the authority having jurisdiction may have the premises disconnected from its source of electric supply. When this equipment or installation has been condemned or disconnected, a notice shall be placed on the equipment or installation listing the causes for the condemnation, the disconnection, or both, and the penalty for the unlawful use of the equipment or installation. Written notice of this condemnation or disconnection and the causes of it shall be given within 24 hours to the owners, the occupant, or both, of the building, structure, or premises. It is unlawful for an individual to remove this notice, to reconnect the electrical equipment to its source of electric supply, or to use or permit to be used electric power in electrical equipment until the causes for the condemnation or disconnection have been remedied to the satisfaction of the inspection authorities.

(2) Delegate authority. The authority having jurisdiction may delegate to other qualified individuals the powers as necessary for the proper administration and enforcement of this code.

History: 1979 AC; 1980 AACS; 1981 AACS; 2004 AACS; 2007 AACS; 2013 AACS; 2019 AACS; 2023 MR 22, Eff. Mar. 12, 2024.



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**R 408.30811**  
**Source:** 2019 AACS.

**R 408.30812**  
**Source:** 2019 AACS.

**R 408.30813**  
**Source:** 2019 AACS.

**R 408.30814**  
**Source:** 2019 AACS.

**R 408.30815**  
**Source:** 2013 AACS.

**R 408.30816**  
**Source:** 2004 AACS.

**R 408.30817**  
**Source:** 2019 AACS.

**R 408.30818 Permits.**

Rule 818. Section 80.19 is added to the code to read as follows:

80.19. Permits and approvals. Permits and approvals shall conform to subdivisions (a) to (g), as follows:

(a) Transfer of permits. Permits shall not be transferable.

(b) Posting of permits. A copy of the permit shall be posted or otherwise readily accessible at each work site.

(c) Permit not required. A permit is not required for all of the following:

(1) Lamps and cord connections. Installation or replacement of equipment such as lamps and of electric utilization equipment approved for connection to suitable permanently installed receptacles.

(2) Minor repair work. Replacement of flush or snap switches, fuses, lamp sockets, and receptacles, and other minor maintenance and repair work, such as replacing worn cords and tightening connections on a wiring device and minor repair work, as that term is defined in section 703 of the skilled trades regulation act, 2016 PA 407, MCL 339.5703.

(3) Electrical manufacturing. The process of manufacturing, testing, servicing, or repairing electrical equipment or apparatus.

(4) Statute exemptions. Installations that are referred to in section 737(3)(a), (b), (c), (d), (f), (h), (l), and (m) of the skilled trades regulations act, 2016 PA 407, MCL 339.5737.

(d) Expiration. Permits shall expire 180 days after issuance and are extended 180 days from the last inspection date.

(e) Annual permits. In lieu of an individual permit for each installation or alteration, an annual permit shall, on application, be issued to an individual, firm, or corporation regularly employing 1 or more employees for the installation, alteration, and maintenance of electrical equipment in or on buildings or premises owned or occupied by the applicant for the permit. On application, an electrical contractor as an agent for the owner or tenant shall be issued an annual permit. The applicant shall keep records of all work done, and the records shall be transmitted periodically to the electrical inspector.

(f) Inspection and approvals.

(1) Inspection notification. On the completion of an installation of electrical equipment that has been made under a permit, the individual, firm, or corporation making the installation shall notify the electrical inspector having jurisdiction.

(2) Approvals. Where the inspector finds the installation to be in conformity with the code, state statutes, rules, and, if applicable, local ordinances, the inspector shall issue to the individual, firm, or corporation making the installation a final approval, or certificate of approval provided payment has been made, which authorizes the connection into the supply of electricity.

(3) Concealment. When a portion of the electrical installation within the jurisdiction of an electrical inspector is to be hidden from view by the permanent placement of parts of the building, the individual, firm, or corporation installing the equipment shall notify the electrical inspector, and the equipment shall not be concealed until it has been approved by the electrical inspector. The code official and the jurisdiction shall not be liable for expense entailed in the removal or replacement of material required to allow inspection.

(g) Applications and extensions. The authority having jurisdiction may grant one 180-day extension of the original permit time period of 180 days, upon presentation of the permittee of a satisfactory reason for failure to start or complete the work or

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activity authorized by the permit.

History: 1979 AC; 1981 AACS; 1991 AACS; 1995 AACS; 1998-2000 AACS; 2004 AACS; 2007 AACS; 2009 AACS; 2013 AACS; 2015 AACS; 2019 AACS; 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30819 Plans and specifications.**

Rule 819. Sections 80.21, 80.21.1, and 80.21.2 are added to the code to read as follows:

80.21. Plans required. An applicant shall submit a detailed set of plans and specifications with the application for an electrical permit for wiring or alteration to an electrical system if the system requires installation of electrical equipment that has an ampacity of more than 400 amperes, at 1,000 volts or less, for the service or feeder and if the calculated floor area in a building is more than 3,500 square feet. The enforcing agency may request plans for projects that include an unusual design. Plans and specifications shall conform to the following:

- (a) Lighting layout.
- (b) Circuiting.
- (c) Switching.
- (d) Conductor and raceway sizes.
- (e) Wattage schedule.
- (f) Service location and riser diagram.
- (g) Load calculations and available fault current calculations.
- (h) A proposed method of construction that is drawn with symbols of a standard form.

All conductors are assumed to be copper unless otherwise stated in the plan. Specifications, when provided, shall also include the information listed in this rule. The selection of suitable disconnect and overcurrent devices to provide proper coordination and interrupting capacity for a wiring system is the responsibility of the designer. The enforcing agency, when approving electrical plans, does not assume responsibility for the design or for deviations from electrical drawings. The permit holder shall ensure that the plans and specifications approved by the enforcing agency, or a certified copy of the plans and specifications, where required, are available on the jobsite for the use of the enforcing agency.

80.21.1. Plan revisions. Work shall be installed pursuant to the code and approved construction documents, and changes made during construction that are not in compliance with the approved construction documents shall be resubmitted for approval as an amended set of construction documents.

80.21.2. Information on construction documents. Construction documents shall be dimensioned and drawn on suitable material. Electronic media documents may be submitted when approved by the enforcing agency. Construction documents shall be of sufficient clarity to indicate the location, nature, and extent of the work proposed and show in detail that it will conform to the provisions of this code and relevant laws, ordinances, rules, and regulations as determined by the enforcing agency.

History: 1979 AC; 1981 AACS; 1988 AACS; 1991 AACS; 1995 AACS; 1998-2000 AACS; 2004 AACS; 2007 AACS; 2013 AACS; 2015 AACS; 2019 AACS; 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30820**

**Source:** 2019 AACS.

**R 408.30821**

**Source:** 2019 AACS.

**R 408.30822**

**Source:** 2019 AACS.

**R 408.30823 Connection to electricity supply.**

Rule 823. Section 80.25 is amended to the code to read as follows:

80.25. Connection to electricity supply. Connections to the electric supply shall conform to subdivisions (a) and (b).

(a) Supply electricity. Except where work is done under an annual permit and except as otherwise provided in section 80.25, it is unlawful for an individual, firm, or corporation to make connection to a supply of electricity or to supply electricity to electrical equipment installation for which a permit is required or that has been disconnected or ordered to be disconnected.

(b) Utility emergency connections. The governing utility may reconnect the electrical service, before approval by the enforcing agency, following emergency repairs performed by an electrical contractor licensed pursuant to article 7 of the skilled trades regulation act, 2016 PA 407, MCL 339.5701 to 339.5739. The electrical contractor shall secure a permit by the next business day after the work is completed. This requirement is not applicable to new service connections, upgrades, structural fires, or other planned modifications.

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History: 1979 AC; 1981 AACS; 1991 AACS; 2004 AACS; 2007 AACS; 2013 AACS; 2019 AACS; 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30824**

**Source:** 2019 AACS.

**R 408.30825**

**Source:** 1998-2000 AACS.

**R 408.30826 Rescinded.**

History: 1979 AC; 1981 AACS; 1991 AACS; 1998-2000 AACS; 2004 AACS; 2007 AACS; 2013 AACS; 2019 AACS; 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30827**

**Source:** 2019 AACS.

**R 408.30828 Rescinded.**

History: 2004 AACS; 2007 AACS; 2019 AACS; 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30829**

**Source:** 2019 AACS.

**R 408.30830**

**Source:** 1998-2000 AACS.

**R 408.30831**

**Source:** 2004 AACS.

**R 408.30832**

**Source:** 1997 AACS.

**R 408.30834**

**Source:** 2019 AACS.

**R 408.30835**

**Source:** 2019 AACS.

**R 408.30837**

**Source:** 2004 AACS.

**R 408.30838 NFPA code; adoption by reference.**

Rule 838. Sections 700.9 and 701.9 of the code are amended to read as follows:

700.9. Installation. Emergency systems shall be installed pursuant to NFPA 110 and NFPA 111, 2019 editions, which are adopted by reference in R 408.30801.

701.9. Installation. Legally required standby systems shall be installed pursuant to NFPA 110 and NFPA 111, 2019 editions, which are adopted by reference in R 408.30801.

History: 1986 AACS; 1988 AACS; 1997 AACS; 2009 AACS; 2013 AACS; 2015 AACS; 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30839**

**Source:** 1998-2000 AACS.

**R 408.30843**

**Source:** 2004 AACS.

**R 408.30865**

**Source:** 2015 AACS.

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**R 408.30866**

**Source:** 2004 AACS.

**R 408.30867**

**Source:** 2019 AACS.

**R 408.30868**

**Source:** 2019 AACS.

**R 408.30869**

**Source:** 2019 AACS.

**R 408.30870 NFPA code; adoption by reference.**

Rule 870 Section 230.85 is added to the code to read as follows:

230.85 Emergency disconnects. For 1- and 2-family dwelling units, an emergency disconnecting means shall be installed.

(A) General.

(1) Location. The disconnecting means shall be installed in a readily accessible outdoor location on or within sight of the dwelling unit.

Exception: Where the requirements of section 225.41 are met, this section shall not apply.

(2) Rating. The disconnecting means shall have a short-circuit current rating equal to or greater than the available fault current.

(3) Grouping. If more than 1 disconnecting means are provided, they shall be grouped.

(B) Disconnects. Each disconnect shall be a service disconnect.

(C) Replacement. Where service equipment is replaced, all of the requirements of this section shall apply.

Exception: Where only meter sockets, service entrance conductors, or related raceways and fittings are replaced, the requirements of this section shall not apply.

(D) Identification of other isolation disconnects. Where equipment for isolation of other energy source systems is not located adjacent to the emergency disconnect required by this section, a plaque or directory identifying the location of all equipment for isolation of other energy sources shall be located adjacent to the disconnecting means required by this section.

(E) Marking.

(1) Marking text. The service disconnecting means shall be marked as follows:

“EMERGENCY DISCONNECT, SERVICE DISCONNECT”.

History: 1988 AACS; 1991 AACS; 1997 AACS; 2009 AACS; 2013 AACS; 2015 AACS; 2019 AACS; 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30871**

**Source:** 2019 AACS.

**R 408.30872**

**Source:** 2013 AACS.

**R 408.30873 Uses permitted.**

Rule 873. Sections 334.10 and 334.12(A) of the code are amended to read as follows:

334.10. Uses Permitted. Type NM and type NMC cables may be used in the following, except as prohibited in section 334.12:

(1) One- and 2-family dwellings and their attached or detached garages and storage buildings.

(2) Multifamily dwellings and their detached garages.

(3) In other structures exceeding 1 floor above grade, cables shall be concealed within walls, floors, or ceilings that provide a thermal barrier of material that has not less than a 15-minute finish rating as identified in listings of fire rated assemblies pursuant to the Michigan building code.

(4) Cable trays in structures permitted to be types III, IV, or V where the cables are identified for the use.

334.12(A). Uses not permitted. Types NM and NMC cable shall not be permitted as follows:

(1) In a dwelling or structure not specifically permitted in section 334.10(1), (2) and (3).

(2) Exposed in dropped or suspended ceilings in other than 1- and 2-family and multifamily dwellings.

(3) As service-entrance cable.

(4) In commercial garages having hazardous or classified locations as defined in section 511.3.

(5) In theaters and similar locations, except where permitted in section 518.4(B).

(6) In motion picture studios.

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- (7) In storage battery rooms.
  - (8) In hoistways or on elevators or escalators.
  - (9) Embedded in poured cement, concrete, or aggregate.
  - (10) In hazardous or classified locations, except where specifically permitted by other articles in this code.
- History: 1991 AACCS; 1995 AACCS; 1998-2000 AACCS; 2007 AACCS; 2013 AACCS; 2015 AACCS; 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30880**

**Source:** 2013 AACCS.

**DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS**

**DIRECTOR'S OFFICE**

**CONSTRUCTION CODE**

**PART 9A. MECHANICAL CODE**

**AMENDMENTS AND ADDITIONS TO BASIC MECHANICAL CODE**

**R 408.30901**

**Source:** 1989 AACCS.

**R 408.30901a International mechanical code; adoption by reference.**

Rule 901a. (1) The provisions of the international mechanical code, 2021 edition, except for sections 103.1 to 103.3, 104.2, 104.8, 104.8.1, 106.1.1, 106.1.2, 106.3, 106.3.2, 106.4.5, 109.1 to 109.6, 112.2.5 to 112.2.5.3, 113.1 to 113.4, 114.1, 115.3, 116.1 to 116.4, 1101.9, 1102.3, appendix B, and appendix C, govern the construction, alteration, relocation, demolition, use, and occupancy of buildings and structures. With the exceptions noted, the code is adopted in these rules by reference.

(2) All references to the International Building Code, International Residential Code, International Energy Conservation Code, National Electrical Code, International Mechanical Code, and International Plumbing Code mean the Michigan Building Code, Michigan Residential Code, Michigan Energy Code, Michigan Electrical Code, Michigan Mechanical Code, and Michigan Plumbing Code respectively.

(3) ASHRAE 15-2022 edition: Safety Standard for Refrigeration Systems and ASHRAE 34-2022 edition: Designation and Safety Classification of Refrigerants can be purchased at [www.techstreet.com/ashrae](http://www.techstreet.com/ashrae) for \$178.00. UL/CSA 60335-2-40-2022 edition: Household and Similar Electrical Appliances-Safety-Part 2-40: Particular Requirements for Electrical Heat Pumps, Air Conditioners and Dehumidifiers can be purchased at [www.shopulstandards.com](http://www.shopulstandards.com) for \$521.00. UL/CSA 60335-2-89-2021 edition: Household and Similar Electrical Appliances-Safety-Part 2-89: Particular Requirements for Commercial Refrigerating Appliances with an incorporated or Remote Refrigerant Unit or Compressor can be purchased at [www.shopulstandards.com](http://www.shopulstandards.com) for \$519.00. Inspection of standards are available at the Michigan Department of Licensing and Regulatory Affairs, Bureau of Construction Codes, 611 W. Ottawa Street First Floor Ottawa Building, Lansing, Michigan 48933, or purchased through the bureau's website at [www.michigan.gov/bcc](http://www.michigan.gov/bcc). Additionally, the standards adopted are available for purchase from [www.techstreet.com/ashrae](http://www.techstreet.com/ashrae) and [www.shopulstandards.com](http://www.shopulstandards.com). The cost for purchase of the individual standard is noted in this subrule.

(4) The 2021 Michigan Mechanical code is available for inspection and purchase at the Department of Licensing and Regulatory Affairs, Bureau of Construction Codes, 611 West Ottawa Street, First Floor Ottawa Building, Lansing, Michigan 48933. The code may be purchased from the International Code Council, through the bureau of construction code's website at [www.michigan.gov/bcc](http://www.michigan.gov/bcc), at a cost as of the time of adoption of these rules of \$87.50 for each code book.

History: 1989 AACCS; 1992 AACCS; 1995 AACCS; 1998-2000 AACCS; 2001 AACCS; 2003 AACCS; 2007 AACCS; 2010 AACCS.; 2013 AACCS; 2016 AACCS; 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30902a Rescinded.**

History: 1989 AACCS; 1992 AACCS; 1995 AACCS; 1998-2000 AACCS; 2001 AACCS; 2003 AACCS; 2023 MR 22, Eff. Mar. 12, 2024.

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**R 408.30903a Rescinded.**

History: 1989 AACCS; 1992 AACCS; 1995 AACCS; 1998-2000 AACCS; 2001 AACCS; 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30904a Right of entry.**

Rule 904a. Section 104.4 of the code is amended to read as follows:

104.4. If a building or premises are occupied, the code official shall present credentials to the occupant and request entry. If a building or premises is unoccupied, the code official shall first make a reasonable effort to locate either the owner, the owner's authorized agent, or another person having care or control of the building or premises and request entry. If entry is refused, the code official has recourse to every remedy provided by law to secure entry. If a code official obtains a proper inspection warrant or other remedy provided by law to secure entry, the owner, owner's authorized agent or occupant or person having charge, care or control of the building or premises shall not fail or neglect, after a proper request is made as provided in this rule, to allow the code official prompt entry into the building or premises to inspect or examine the building or premises pursuant to this code.

History: 1989 AACCS; 1995 AACCS; 1998-2000 AACCS; 2001 AACCS; 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30905a Definitions.**

Rule 905a. The following definitions are added to section 202 as follows:

- (a) "Act" means the Stille-DeRossett-Hale single state construction code act, 1972 PA 230, MCL 125.1501 to 125.1531.
- (b) "Cold weather months" means November 1 through April 1 in Michigan Energy Code climate zone 5A and from October 15 through May 1 in Michigan Energy Code climate zones 6A and 7.
- (c) "Occupiable space" means a room or enclosed space designed for regular or non-regular human occupancy in which individuals congregate for activities, amusement, educational or similar purposes, or in which occupants are engaged at labor, and which is equipped with means of egress, heat, light, and ventilation facilities meeting the requirements of this code. Occupiable space does not include those spaces that are intended primarily for other purposes such as storage rooms and equipment rooms.

History: 1989 AACCS; 1995 AACCS; 1998-2000 AACCS; 2001 AACCS ; 2007 AACCS; 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30906**

**Source:** 1989 AACCS.

**R 408.30906a Work permit; submitting plans and specifications to authority.**

Rule 906a. Sections 106.2, 106.3.1 106.4, 106.4.3, 106.4.4, and 107.1 of the code are amended to read as follows:

106.2. Permits not required. A person is not required to obtain a permit to perform mechanical work on any of the following items:

- (a) A portable heating or gas appliance that has inputs of less than 30,000 Btu's per hour.
- (b) Portable ventilation appliances and equipment.
- (c) A portable cooling unit.
- (d) Steam, hot water, or chilled water piping within any heating or cooling equipment or appliances regulated by the code.
- (e) Except for a heat exchanger, replacement of any manufacturer installed part on a listed and labeled appliance or listed and labeled equipment, if the replacement does not alter the approval of the appliance or equipment or make the appliance or equipment unsafe.
- (f) Self-contained refrigeration systems that contain 10 pounds or less of refrigerant, or that are actuated by motors of 1.5 horsepower or less.
- (g) Portable fuel cell appliances that are not connected to a fixed piping system and are not interconnected to a power grid.
- (h) An oil burner that does not require connection to a flue, such as an oil stove and a heater equipped with a wick.
- (i) Installing gas piping limited to 10 feet in length and not more than 6 fittings when changing or relocating a gas meter or regulator.
- (j) When installing geothermal vertical closed loops under the supervision of a mechanical contractor licensed in HVAC as long as the company meets both the following:
  - (1) Has obtained a certificate of registration as a well drilling contractor pursuant to part 127 of the public health code, 1978 PA 368, MCL 333.12701 to 333.12771.
  - (2) Has installed the geothermal vertical closed loops in accordance with the department of environment, Great Lakes, and energy's best practices regarding geothermal heat pump closed loops.

Exemption from the permit requirements of this code shall not grant authorization for work to be done in violation of the provisions of this code or other laws or ordinances of this jurisdiction.

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106.4. Permit issuance. The enforcing agency shall review the application, construction documents, and other data filed by an applicant for a permit in accordance with the act. If the enforcing agency finds that the proposed work conforms to the requirements of the act, the code, and all other applicable laws and ordinances, and that all fees prescribed by the act have been paid, then the enforcing agency shall issue a permit to the applicant.

106.4.3. Expiration. Each permit issued by the code official under the provisions of the code shall expire by limitation and become null and void if the work authorized by the permit has not started within 180 days after the date of the permit is issued, or if the work authorized by the permit is suspended or abandoned at any time after the work has started, for a period of 180 days. Before work is recommenced on a project where a permit has expired, the permit must either be restored to "Issued" status and all necessary fees must be paid, or a new permit must be secured. If the code has changed and the work was not started, a new permit shall be first obtained, provided no changes have been made or will be made in the original construction document and that suspension or abandonment has not exceeded 1 year.

106.4.4. Extensions. A permittee holding an unexpired permit may apply for an extension of the time within which the permittee may begin work under that permit if for good and satisfactory reasons. The code official shall extend the time for action by the permittee for a period not exceeding 180 days if there is reasonable cause. No permit shall be extended more than once.

**107.1 Construction documents.**

(1) Construction documents, engineering calculations, diagrams, and other data shall be submitted in 2 or more sets with each application for a permit. Code officials may require additional construction documents at any point during construction. The code official shall require construction documents, computations, and specifications to be prepared and designed by a registered design professional, licensed in accordance with the occupational code, 1980 PA 299, MCL 339.101 to 339.2677.

Exceptions:

1. The code official may waive the submission of construction documents, calculations, or other data if the nature of the work applied for is such that reviewing of construction documents is not necessary to determine compliance with the code.

2. Construction documents shall not be required when obtaining a permit from the bureau of construction codes for any of the following circumstances:

a. Alterations and repair work determined by the mechanical official to be of a minor nature.

b. Business, mercantile, and storage use group buildings having HVAC equipment only, with 1 fire area and not more than 3,500 square feet.

c. Work completed by a governmental subdivision or state agency costing less than \$15,000.00.

(2) Where special conditions exist, the code official may require additional construction documents to be prepared by a registered design professional.

(3) Construction documents shall be drawn to scale and shall be of sufficient clarity to indicate the location, nature, and extent of the work proposed and show in detail that the work conforms to the provisions of this code.

(4) Construction documents for buildings more than 2 stories in height shall indicate where penetrations will be made for mechanical systems, and the materials and methods for maintaining required structural safety, fire-resistance rating, and fire blocking.

History: 1989 AACCS; 1995 AACCS; 1998-2000 AACCS; 2001 AACCS; 2003 AACCS; 2007 AACCS; 2010 AACCS; 2013 AACCS; 2023 MR 22, Eff. Mar. 12, 2024.

Editor's Note: An obvious error in R 408.30906a was corrected at the request of the promulgating agency, pursuant to Section 56 of 1969 PA 306, as amended by 2000 PA 262, MCL 24.256. The rule containing the error was published in *Michigan Register*, 2023 MR 22. The memorandum requesting the correction was published in *Michigan Register*, 2024 MR 1.

**R 408.30907**

**Source:** 1989 AACCS.

**R 408.30907a**

**Source:** 2007 AACCS.

**R 408.30908**

**Source:** 1989 AACCS.

**R 408.30908a Rescinded.**

History: 1989 AACCS; 1992 AACCS; 1995 AACCS; 1998-2000 AACCS; 2001 AACCS; 2003 AACCS; 2007 AACCS; 2023 MR 22, Eff. Mar. 12, 2024.

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**R 408.30909**

**Source:** 1989 AACS.

**R 408.30909a**

**Source:** 2007 AACS.

**R 408.30910**

**Source:** 1989 AACS.

**R 408.30910a Rescinded.**

History: 1989 AACS; 1995 AACS; 1998-2000 AACS; 2001 AACS; 2003 AACS; 2007 AACS; 2013 AACS; 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30911**

**Source:** 1989 AACS.

**R 408.30912**

**Source:** 1989 AACS.

**R 408.30912a Rescinded.**

History: 1989 AACS; 1992 AACS; 1995 AACS; 2007 AACS; 2010 AACS; 2013 AACS; 2016 AACS; 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30913**

**Source:** 1989 AACS.

**R 408.30914**

**Source:** 1989 AACS.

**R 408.30915**

**Source:** 1989 AACS.

**R 408.30915a**

**Source:** 2016 AACS.

**R 408.30916**

**Source:** 2016 AACS.

**R 408.30916a**

**Source:** 2001 AACS.

**R 408.30917**

**Source:** 1989 AACS.

**R 408.30917a**

**Source:** 1998-2000 AACS.

**R 408.30918 Violation penalties.**

Rule 918. Section 115.4 of the code is amended to read as follows:

115.4 Violation penalties. A person that violates a provision of the code, that fails to conform with any of the requirements of the code, or that erects, installs, alters, or repairs mechanical work in violation of the approved construction documents or directive of the enforcing agency, or a permit or certificate issued under the provisions of the code is subject to review, which may result in licensing action pursuant to the skilled trades regulation act, 2016 PA 407, MCL 339.5101 to 339.6133.

History: 1979 AC; 1989 AACS; 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30918a**



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**Source:** 2016 AACS.

**R 408.30919**

**Source:** 1989 AACS.

**R 408.30919a**

**Source:** 1995 AACS.

**R 408.30920**

**Source:** 1989 AACS.

**R 408.30920a**

**Source:** 1998-2000 AACS.

**R 408.30921**

**Source:** 1989 AACS.

**R 408.30921a**

**Source:** 1997 AACS.

**R 408.30922**

**Source:** 1989 AACS.

**R 408.30922a**

**Source:** 1998-2000 AACS.

**R 408.30923**

**Source:** 1989 AACS.

**R 408.30923a Equipment installation.**

Rule 923a. Section 301.10.1 is added to the code and section 309.1 of the code is amended to read as follows:

301.10.1. Electrical disconnect. The mechanical contractor shall ensure that all equipment is equipped with an externally accessible electrical disconnect switch on, or within 6 feet of, the equipment. The disconnect shall be permanently identified.

309.1. Occupiable space heating systems. Interior spaces intended for human occupancy shall be provided with heating facilities capable of maintaining a minimum interior room temperature of 68 degrees Fahrenheit, 20 degrees Celsius, at a point 3 feet, 914 millimeters, above the floor and 2 feet, 609.6 millimeters, from exterior walls at the required design temperature. The installation of portable space heaters shall not be used to comply with this section.

Exception:

1. Interior spaces where the primary purpose is not associated with human comfort.

2. Interior, seasonal spaces that are unoccupied during cold weather months, including restrooms, shower buildings, day use restrooms, concession stands, press boxes, ticket booths and locker rooms.

3. Group F, H, S or U occupancies.

History: 1989 AACS; 1992 AACS; 1995 AACS; 1998-2000 AACS; 2001 AACS; 2003 AACS; 2010 AACS; 2013 AACS; 2016 AACS; 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30924**

**Source:** 1989 AACS.

**R 408.30924a**

**Source:** 2001 AACS.

**R 408.30925**

**Source:** 1989 AACS.

**R 408.30925a**

**Source:** 1998-2000 AACS.

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**R 408.30926**

Source: 1989 AACS.

**R 408.30926a**

Source: 1998-2000 AACS.

**R 408.30927**

Source: 1989 AACS.

**R 408.30927a Rescinded.**

History: 1989 AACS; 1995 AACS; 2007 AACS; 2010 AACS; 2013 AACS; 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30928**

Source: 1989 AACS.

**R 408.30928a Solid fuel burning equipment.**

Rule 928a. Section 901.5 is added to the code to read as follows:

901.5 Solid fuel burning equipment. Solid fuel burning equipment shall be listed and labeled in accordance with section 304.1 of the code and installed in accordance with the manufacturer's instructions and NFPA 211-2019 requirements.

History: 1989 AACS; 1992 AACS; 1995 AACS; 1998-2000 AACS; 2001 AACS; 2010 AACS; 2013 AACS; 2016 AACS; 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30929**

Source: 1989 AACS.

**R 408.30929a**

Source: 1998-2000 AACS.

**R 408.30930**

Source: 1989 AACS.

**R 408.30930a**

Source: 1998-2000 AACS.

**R 408.30931**

Source: 1998-2000 AACS.

**R 408.30931a**

Source: 1998-2000 AACS.

**R 408.30931b**

Source: 1998-2000 AACS.

**R 408.30932a**

Source: 1998-2000 AACS.

**R 408.30933**

Source: 1989 AACS.

**R 408.30933a**

Source: 1998-2000 AACS.

**R 408.30934**

Source: 1989 AACS.

**R 408.30935**

Source: 1989 AACS.

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**R 408.30935a Performance test.**

Rule 935a. Section 507.6.1.1 is added to the code to read as follows:

507.6.1.1 Capture and containment procedure. The field test identified in section 507.6.1 of the code shall be conducted in accordance with the smoke testing procedures established by the bureau of construction codes, which are available at no cost from the bureau of construction code's website at [www.michigan.gov/bcc](http://www.michigan.gov/bcc), or from the Michigan Department of Licensing and Regulatory Affairs, Bureau of Construction Codes, 611 West Ottawa Street, First Floor Ottawa Building, Lansing, Michigan 48933.

History: 1989 AACCS; 1992 AACCS; 1995 AACCS; 1998-2000 AACCS; 2001 AACCS; 2003 AACCS; 2007 AACCS; 2010 AACCS; 2013 AACCS; 2016 AACCS; 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30936**

Source: 1989 AACCS.

**R 408.30936a Scope of article.**

Rule 936a. Section 1001.2 is added to the to read as follows:

1001.2. Boilers. In addition to the other provisions of the code, this article governs the installation, alteration, and repair of water heaters and boilers. The installation of boilers shall comply with the provisions of this code and the skilled trades regulation act, 2016 PA407, MCL 339.5101 to 339.6133.

History: 1989 AACCS; 1992 AACCS; 1995 AACCS; 1998-2000 AACCS; 2001 AACCS; 2003 AACCS; 2007 AACCS; 2016 AACCS; 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30937**

Source: 1989 AACCS.

**R 408.30937a**

Source: 1998-2000 AACCS.

**R 408.30938**

Source: 1989 AACCS.

**R 408.30938a**

Source: 1997 AACCS.

**R 408.30939**

Source: 1989 AACCS.

**R 408.30940**

Source: 1989 AACCS.

**R 408.30940a**

Source: 2001 AACCS.

**R 408.30941**

Source: 1989 AACCS.

**R 408.30941a**

Source: 1998-2000 AACCS.

**R 408.30942**

Source: 1989 AACCS.

**R 408.30942a**

Source: 1997 AACCS.

**R 408.30943**

Source: 1989 AACCS.

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**R 408.30943a**

Source: 1997 AACCS.

**R 408.30944**

Source: 1989 AACCS.

**R 408.30944a**

Source: 1998-2000 AACCS.

**R 408.30945**

Source: 1989 AACCS.

**R 408.30945a Ventilation; exhaust.**

Rule 945a. Sections 501.3, 504.4, and 504.9.2, of the code are amended to read as follows:

501.3 Exhaust discharge. The air removed by every mechanical exhaust system shall be discharged outdoors at a point where it will not cause a public nuisance and not less than the distances specified in section 501.3.1 of the code. The air shall be discharged to a location from which it cannot again be readily drawn in by a ventilating system. Air shall not be exhausted into an attic or a crawl space, be directed onto walkways, or terminate within 3 feet of a ventilated section in a soffit.

Exceptions:

1. Whole-house ventilation-type attic fans shall be permitted to discharge into the attic space of dwelling units that have private attics.
2. Commercial cooking recirculating systems.
3. When installed in accordance with the manufacturer's instructions and when mechanical or natural ventilation is otherwise provided in accordance with chapter 4 of the code, listed and labeled domestic ductless range hoods shall not be required to discharge to the outdoors.

504.4 Exhaust installation. Dryer exhaust ducts for clothes dryers shall terminate on the outside of the building, shall not terminate within 3 feet of a ventilated section in a soffit, and shall be equipped with a back-draft damper. Screens shall not be installed at the duct termination. Ducts shall not be connected or installed with sheet metal screws or other fasteners that will obstruct the exhaust flow. Clothes dryer exhaust ducts shall not be connected to a vent connector, vent, or chimney. Clothes dryer exhaust ducts shall not extend into or pass through ducts or plenums.

504.9.2 Duct installation. Dryer exhaust ducts shall be supported at 4-foot, 1,219 millimeters, intervals and secured in place. The insert end of the duct shall extend into the adjoining duct or fitting in the direction of airflow. Ducts shall not be joined with screws or similar fasteners that protrude into the inside of the duct.

History: 2003 AACCS; 2007 AACCS; 2010 AACCS; 2013 AACCS; 2016 AACCS; 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30946 Alterations and repairs.**

Rule 946. Section 1001.3 is added to the code to read as follows:

1001.3. Alterations and repairs to boilers shall be in accordance with the skilled trades regulation act, 2016 PA 407, MCL 339.5101 to 339.6133.

History: 1989 AACCS; 1995 AACCS; 1998-2000 AACCS; 2010 AACCS; 2016 AACCS; 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30946a**

Source: 2010 AACCS.

**R 408.30947**

Source: 2016 AACCS.

**R 408.30947a Rescinded.**

History: 2013 AACCS; 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30947b Refrigerants other than ammonia.**

Rule 947b. Section 1101.1.1 of the code is amended to read as follows:

1101.1.1 Refrigerants other than ammonia. Refrigerant piping design and installation for systems containing a refrigerant other than ammonia, including pressure vessels and pressure relief devices, shall comply with this chapter and ASHRAE 15. System using A2L refrigerants shall comply with ASHRAE 15.

History: 2023 MR 22, Eff. Mar. 12, 2024.

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**R 408.30948 Rescinded.**

History: 1979 AC; 1989 AACS; 2010 AACS; 2013 AACS; 2016 AACS; 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30948a**

**Source:** 2016 AACS.

**R 408.30949**

Source: 1989 AACS.

**R 408.30949a**

**Source:** 1998-2000 AACS.

**R 408.30950**

Source: 1989 AACS.

**R 408.30951**

Source: 1989 AACS.

**R 408.30951a**

**Source:** 1998-2000 AACS.

**R 408.30952**

Source: 1989 AACS.

**R 408.30952a**

**Source:** 1997 AACS.

**R 408.30953a**

**Source:** 1998-2000 AACS.

**R 408.30954**

Source: 1989 AACS.

**R 408.30954a**

**Source:** 1998-2000 AACS.

**R 408.30955**

Source: 1989 AACS.

**R 408.30955a**

**Source:** 1997 AACS.

**R 408.30956**

Source: 1989 AACS.

**R 408.30956a**

**Source:** 1998-2000 AACS.

**R 408.30957**

Source: 1989 AACS.

**R 408.30958**

Source: 1989 AACS.

**R 408.30958a**

**Source:** 1998-2000 AACS.

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**R 408.30959**

Source: 1989 AACCS.

**R 408.30960a**

Source: 1997 AACCS.

**R 408.30962**

Source: 1989 AACCS.

**R 408.30962a**

Source: 1998-2000 AACCS.

**R 408.30963a**

Source: 1998-2000 AACCS.

**R 408.30964**

Source: 1989 AACCS.

**R 408.30964a**

Source: 1997 AACCS.

**R 408.30965**

Source: 1989 AACCS.

**R 408.30965a**

Source: 1998-2000 AACCS.

**R 408.30966**

Source: 1989 AACCS.

**R 408.30966a**

Source: 1997 AACCS.

**R 408.30967**

Source: 1989 AACCS.

**R 408.30967a**

Source: 1997 AACCS.

**R 408.30968**

Source: 1989 AACCS.

**R 408.30968a**

Source: 1997 AACCS.

**R 408.30969**

Source: 1989 AACCS.

**R 408.30970a**

Source: 1997 AACCS.

**R 408.30971**

Source: 1989 AACCS.

**R 408.30971a**

Source: 1997 AACCS.

**R 408.30972**

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Source: 1989 AACS.

**R 408.30972a**

Source: 1997 AACS.

**R 408.30974**

Source: 1989 AACS.

**R 408.30975a**

Source: 1998-2000 AACS.

**R 408.30977a**

Source: 1997 AACS.

**R 408.30980**

Source: 1989 AACS.

**R 408.30981**

Source: 1989 AACS.

**R 408.30982**

Source: 1989 AACS.

**R 408.30982a**

Source: 1997 AACS.

**R 408.30983a**

Source: 1998-2000 AACS.

**R 408.30984**

Source: 1989 AACS.

**R 408.30984a**

Source: 1998-2000 AACS.

**R 408.30986**

Source: 1989 AACS.

**R 408.30987a**

Source: 1998-2000 AACS.

**R 408.30988**

Source: 1989 AACS.

**R 408.30989**

Source: 1989 AACS.

**R 408.30989a**

Source: 1997 AACS.

**R 408.30990**

Source: 1989 AACS.

**R 408.30992**

Source: 1989 AACS.

**R 408.30992a**

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**Source:** 1997 AACS.

**R 408.30993**

**Source:** 1989 AACS.

**R 408.30994**

**Source:** 1989 AACS.

**R 408.30995**

**Source:** 1989 AACS.

**R 408.30995a Automatic sprinkler systems generally.**

Rule 995a. Sections 1600.0, 1600.1, and 1600.2 are added to the code to read as follows:

1600.0. Automatic sprinkler systems; fire suppression systems.

1600.1 Scope. The provisions of this article provide the minimum requirements for the design and installation of automatic sprinkler systems in all occupancies, except for 1- and 2-family dwellings.

1600.2. Installations. Installations shall be in compliance with the provisions of the code. Fire suppression systems shall be in compliance with the provisions of the building code and shall be installed in accordance with the code and NFPA-13-2019 or NFPA-13D-2019 or NFPA-13R-2019, and NFPA-24-2019, and standards of the National Fire Protection Association listed in chapter 15.

**History:** 1989 AACS; 1992 AACS; 1995 AACS; 1998-2000 AACS; 2001 AACS; 2003 AACS; 2007 AACS; 2010 AACS; 2013 AACS; 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30996 Process piping.**

Rule 996. Sections 1700.0 and 1700.1 are added to the code to read as follows:

1700.0. Process piping.

1700.1 Scope. The provisions of this chapter provide the minimum requirements for the design and installation of process piping systems pursuant to ASME B31.3-2022.

1700.2 Process piping. Piping which is not part of a refrigeration system or part of a system designed to provide air conditioning. Process piping includes pipes which transfer chemicals and other fluids, gases, or vapors for systems other than air conditioning systems as covered by the Michigan mechanical code.

**History:** 1979 AC; 1989 AACS; 2013 AACS; 2023 MR 22, Eff. Mar. 12, 2024.

**R 408.30997**

**Source:** 1989 AACS.

**R 408.30998**

**Source:** 1989 AACS.

**PART 10. ENERGY CONSERVATION IN NEW BUILDING DESIGN**

**R 408.31001**

**Source:** 1998-2000 AACS.

**R 408.31010**

**Source:** 1998-2000 AACS.

**R 408.31020**

**Source:** 1998-2000 AACS.

**R 408.31030**

**Source:** 1998-2000 AACS.

**R 408.31040**

**Source:** 1998-2000 AACS.

**R 408.31041**



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**Source:** 1998-2000 AACS.

**R 408.31045**

**Source:** 1998-2000 AACS.

**R 408.31050**

**Source:** 1998-2000 AACS.

**R 408.31055**

**Source:** 1998-2000 AACS.

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**BUREAU OF CONSTRUCTION CODES**

**CONSTRUCTION CODE**

**PART 10. MICHIGAN ENERGY CODE**

**R 408.31059**

**Source:** 2015 AACS.

**R 408.31060**

**Source:** 2015 AACS.

**R 408.31060b**

**Source:** 2010 AACS.

**R 408.31060c**

**Source:** 2010 AACS.

**R 408.31060d**

**Source:** 2010 AACS.

**R 408.31060e**

**Source:** 2010 AACS.

**R 408.31061**

**Source:** 2010 AACS.

**R 408.31062**

**Source:** 2010 AACS.

**R 408.31063**

**Source:** 2015 AACS.

**R 408.31063a**

**Source:** 2015 AACS.

**R 408.31064**

**Source:** 2010 AACS.

**R 408.31065**

**Source:** 2015 AACS.

**R 408.31066**

**Source:** 2015 AACS.

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**R 408.31069**  
Source: 2015 AACCS.

**R 408.31070**  
Source: 2015 AACCS.

**R408.31071**  
Source: 2015 AACCS.

**R 408.31071a**  
Source: 2015 AACCS.

**R 408.31072**  
Source: 2008 AACCS.

**R 408.31073**  
Source: 2008 AACCS.

**R 408.31074**  
Source: 2008 AACCS.

**R 408.31075**  
Source: 2008 AACCS.

**R 408.31076**  
Source: 2008 AACCS.

**R 408.31077**  
Source: 2008 AACCS.

**R 408.31078**  
Source: 2008 AACCS.

**R 408.31079**  
Source: 2008 AACCS.

**R 408.31080**  
Source: 2008 AACCS.

**R 408.31081**  
Source: 2008 AACCS.

**R 408.31082**  
Source: 2008 AACCS.

**R 408.31083**  
Source: 2008 AACCS.

**R 408.31084**  
Source: 2008 AACCS.

**R 408.31085**  
Source: 2008 AACCS.

**R 408.31086**  
Source: 2008 AACCS.

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**DIRECTOR'S OFFICE**

**CONSTRUCTION CODE**

**PART 10a MICHIGAN ENERGY CODE**

**R 408.31087**  
Source: 2017 AACCS.

**R 408.31087a**  
Source: 2017 AACCS.

**R 408.31087b**  
Source: 2017 AACCS.

**R 408.31088**  
Source: 2017 AACCS.

**R 408.31088a**  
Source: 2017 AACCS.

**R 408.31089**  
Source: 2017 AACCS.

**R 408.31090**  
Source: 2017 AACCS.

**R 408.31091**  
Source: 2017 AACCS.

**R 408.31092**  
Source: 2017 AACCS.

**R 408.31092a**  
Source: 2017 AACCS.

**R 408.31093**  
Source: 2017 AACCS.

**R 408.31094**  
Source: 2017 AACCS.

**R 408.31095**  
Source: 2017 AACCS.

**R 408.31096**  
Source: 2017 AACCS.

**R 408.31097**  
Source: 2017 AACCS.

**R 408.31098**  
Source: 2017 AACCS.

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**R 408.31098a**  
**Source:** 2017 AACs.

**R 408.31098b**  
**Source:** 2017 AACs.

**R 408.31098c**  
**Source:** 2017 AACs.

**PART 11. PREMANUFACTURED UNITS**

**R 408.31101**  
**Source:** 1979 AC.

**R 408.31103**  
**Source:** 1984 AACs.

**R 408.31104**  
**Source:** 1984 AACs.

**R 408.31105**  
**Source:** 1984 AACs.

**R 408.31106**  
**Source:** 1984 AACs.

**R 408.31107**  
**Source:** 2006 AACs.

**R 408.31111**  
**Source:** 1984 AACs.

**R 408.31112**  
**Source:** 1979 AC.

**R 408.31113**  
**Source:** 1984 AACs.

**R 408.31121**  
**Source:** 1979 AC.

**R 408.31122**  
**Source:** 1984 AACs.

**R 408.31131**  
**Source:** 1979 AC.

**R 408.31132**  
**Source:** 1984 AACs.

**R 408.31133**  
**Source:** 1984 AACs.

**R 408.31134**  
**Source:** 1984 AACs.

**R 408.31135**  
**Source:** 1984 AACs.

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**R 408.31136**  
Source: 1984 AACCS.

**R 408.31137**  
Source: 1984 AACCS.

**R 408.31138**  
Source: 1984 AACCS.

**R 408.31139**  
Source: 1984 AACCS.

**R 408.31141**  
Source: 1984 AACCS.

**R 408.31142**  
Source: 1984 AACCS.

**R 408.31143**  
Source: 1979 AC.

**R 408.31144**  
Source: 1984 AACCS.

**R 408.31145**  
Source: 1984 AACCS.

**R 408.31151**  
Source: 1979 AC.

**R 408.31152**  
Source: 1984 AACCS.

**R 408.31153**  
Source: 1984 AACCS.

**R 408.31161**  
Source: 1979 AC.

**R 408.31162**  
Source: 1984 AACCS.

**R 408.31163**  
Source: 1979 AC.

**R 408.31164**  
Source: 1979 AC.

**R 408.31165**  
Source: 1979 AC.

**R 408.31166**  
Source: 1979 AC.

**R 408.31167**  
Source: 1984 AACCS.

**R 408.31168**

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**Source:** 1984 AACS.

**R 408.31169**

**Source:** 2006 AACS.

**R 408.31170**

**Source:** 2004 AACS.

**R 408.31171**

**Source:** 1979 AC.

**R 408.31172**

**Source:** 1984 AACS.

**R 408.31174**

**Source:** 1984 AACS.

**R 408.31191**

**Source:** 1979 AC.

**R 408.31192**

**Source:** 1979 AC.

**R 408.31193**

**Source:** 1979 AC.

**R 408.31194**

**Source:** 1984 AACS.

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**DIRECTOR'S OFFICE**

**CONSTRUCTION SAFETY AND HEALTH STANDARD**

**PART 1. GENERAL RULES**

**R 408.40101**

**Source:** 2015 AACS.

**R 408.40102**

**Source:** 2015 AACS.

**R 408.40103**

**Source:** 1997 AACS.

**R 408.40104**

**Source:** 1997 AACS.

**R 408.40105**

**Source:** 2021 AACS.

**R 408.40106**

**Source:** 1997 AACS.

**R 408.40111**

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**Source:** 1997 AACCS.

**R 408.40112**

**Source:** 1997 AACCS.

**R 408.40114**

**Source:** 2015 AACCS.

**R 408.40115**

**Source:** 2015 AACCS.

**R 408.40116**

**Source:** 2013 AACCS.

**R 408.40118**

**Source:** 2013 AACCS.

**R 408.40119**

**Source:** 2013 AACCS.

**R 408.40120**

**Source:** 2015 AACCS.

**R 408.40121**

**Source:** 2015 AACCS.

**R 408.40122**

**Source:** 2015 AACCS.

**R 408.40123**

**Source:** 2015 AACCS.

**R 408.40125**

**Source:** 2013 AACCS.

**R 408.40126**

**Source:** 2013 AACCS.

**R 408.40127**

**Source:** 2013 AACCS.

**R 408.40128**

**Source:** 2015 AACCS.

**R 408.40129**

**Source:** 1995 AACCS.

**R 408.40130**

**Source:** 1995 AACCS.

**R 408.40130**

**Source:** 2015 AACCS.

**R 408.40131**

**Source:** 2015 AACCS.

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**R 408.40132**  
Source: 2021 AACS.

**R 408.40133**  
Source: 2015 AACS.

**R 408.40134**  
Source: 2013 AACS.

**PART 2. MASONRY WALL BRACING**

**R 408.40201**  
Source: 2010 AACS.

**R 408.40202**  
Source: 2010 AACS.

**R 408.40203**  
Source: 2010 AACS.

**R 408.40204**  
Source: 2010 AACS.

**R 408.40205**  
Source: 2010 AACS.

**R 408.40206**  
Source: 2010 AACS.

**R 408.40207**  
Source: 2010 AACS.

**R 408.40208**  
Source: 2010 AACS.

**R 408.40209**  
Source: 2010 AACS.

**R 408.40210**  
Source: 2010 AACS.

**R 408.40211**  
Source: 2010 AACS.

**R 408.40212**  
Source: 2010 AACS.

**R 408.40213**  
Source: 2010 AACS.

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**PART 6. PERSONAL PROTECTIVE EQUIPMENT**



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**R 408.40601**  
Source: 2021 AACS.

**R 408.40603**  
Source: 2018 AACS.

**R 408.40614**  
Source: 2014 AACS.

**R 408.40615**  
Source: 2021 AACS.

**R 408.40616**  
Source: 2021 AACS.

**R 408.40617**  
Source: 2014 AACS.

**PAYMENT FOR PERSONAL PROTECTIVE EQUIPMENT**

**R 408.40617a**  
Source: 2021 AACS.

**R 408.40621**  
Source: 2018 AACS.

**R 408.40622**  
Source: 2018 AACS.

**R 408.40623**  
Source: 2018 AACS.

**R 408.40624**  
Source: 2018 AACS.

**WELDING PROTECTION**

**R 408.40624a**  
Source: 2021 AACS.

**R 408.40624b**  
Source: 2018 AACS.

**FOOT AND TOE PROTECTION**

**R 408.40625**  
Source: 2018 AACS.

**HAND AND BODY PROTECTION**

**R 408.40626**  
Source: 2014 AACS.

**R 408.40627**  
Source: 2013 AACS.

**FALL PROTECTION**

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**R 408.40631**  
Source: 2018 AACS.

**R 408.40632**  
Source: 2013 AACS.

**R 408.40633**  
Source: 2014 AACS.

**R 408.40634**  
Source: 2014 AACS.

**R 408.40635**  
Source: 2014 AACS.

**WORKING OVER OR NEAR WATER**

**R 408.40636**  
Source: 2021 AACS.

**R 408.40641**  
Source: 2013 AACS.

**R 408.40650**  
Source: 2018 AACS.

**R 408.40655**  
Source: 2018 AACS.

**R 408.40660**  
Source: 2018 AACS.

**PART 7. WELDING AND CUTTING**

**R 408.40701**  
Source: 1980 AACS.

**R 408.40705**  
Source: 2015 AACS.

**R 408.40706**  
Source: 1980 AACS.

**R 408.40707**  
Source: 1980 AACS.

**R 408.40709**  
Source: 2015 AACS.

**R 408.40711**  
Source: 2013 AACS.

**R 408.40712**  
Source: 2013 AACS.

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**R 408.40713**  
Source: 2015 AACS.

**R 408.40714**  
Source: 2013 AACS.

**R 408.40715**  
Source: 1980 AACS.

**R 408.40721**  
Source: 2015 AACS.

**R 408.40722**  
Source: 2015 AACS.

**R 408.40723**  
Source: 2015 AACS.

**R 408.40729**  
Source: 2013 AACS.

**R 408.40731**  
Source: 2015 AACS.

**R 408.40732**  
Source: 1980 AACS.

**R 408.40741**  
Source: 1980 AACS.

**R 408.40742**  
Source: 2013 AACS.

**R 408.40743**  
Source: 2013 AACS.

**R 408.40744**  
Source: 2013 AACS.

**R 408.40745**  
Source: 1980 AACS.

**R 408.40746**  
Source: 2013 AACS.

**R 408.40747**  
Source: 1980 AACS.

**R 408.40751**  
Source: 2015 AACS.

**GENERAL FIRE RULES**

**R 408.40761**  
Source: 2015 AACS.

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**R 408.40762**  
Source: 2015 AACS.

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**PART 8. HANDLING AND STORAGE OF MATERIALS**

**R 408.40801**  
Source: 2021 AACS.

**R 408.40810**  
Source: 2021 AACS.

**R 408.40817**  
Source: 1979 AC.

**R 408.40818**  
Source: 2021 AACS.

**R 408.40819**  
Source: 2013 AACS.

**R 408.40820**  
Source: 2013 AACS.

**R 408.40821**  
Source: 2013 AACS.

**R 408.40822**  
Source: 2013 AACS.

**R 408.40823**  
Source: 2016 AACS.

**R 408.40831**  
Source: 2016 AACS.

**R 408.40832**  
Source: 2016 AACS.

**R 408.40833**  
Source: 2016 AACS.

**R 408.40834**  
Source: 2013 AACS.

**R 408.40835**  
Source: 2004 AACS.

**R 408.40836**  
Source: 2013 AACS.

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**R 408.40837**

Source: 2013 AACCS.

**R 408.40840**

Source: 2013 AACCS.

**R 408.40841**

Source: 2013 AACCS.

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**CONSTRUCTION SAFETY AND HEALTH STANDARD**

**PART 9. EXCAVATION, TRENCHING, AND SHORING**

**R 408.40901 Scope and referenced standards.**

Rule 901. (1) This part pertains to the digging of excavations and trenches which an employee is required to enter and the supporting systems used on construction operations.

(2) The following Michigan occupational safety and health (MIOSHA) standards are referenced in these rules:

(a) Construction Safety and Health Standard Part 21. "Guarding of Walking and Working Areas," R 408.42101 to R 408.42160.

(b) Construction Safety Standard Part 45. "Fall Protection," R 408.44501 to R 408.44502.

(3) Up to 5 copies of the standards listed in subrule (2) of this rule may be obtained at no charge from the Department of Labor and Economic Opportunity, MIOSHA, Standards and FOIA Section, 530 West Allegan Street, P.O. Box 30645, Lansing, Michigan, 48909-8145 or via the internet at the following website: [www.michigan.gov/mioshastandards](http://www.michigan.gov/mioshastandards). For quantities greater than 5, the cost, as of the time of adoption of these rules, is 4 cents per page.

History: 1979 AC; 2023 MR 24, Eff. Jan. 3, 2024.

**R 408.40925 Definitions A to Q.**

Rule 925. (1) "Angle of repose" means the maximum permissible slope as determined by table 1.

(2) "Benching" means a method of protecting employees from cave-ins by excavating the sides of an excavation to form 1 or a series of horizontal levels or steps, usually with vertical or near-vertical surfaces between levels.

(3) "Braces" or "struts" means the horizontal cross members of a shoring system that bear against the uprights or stringers.

(4) "Cave-in" means the separation of a mass of soil or rock material from the side of an excavation, or the loss of soil from under a trench shield or support system, and its sudden movement into the excavation, either by falling or sliding, in sufficient quantity so that it could entrap, bury, or otherwise injure and immobilize a person.

(5) "Competent person" means an individual who is capable of identifying existing and predictable hazards in the surroundings or working conditions which are unsanitary, hazardous, or dangerous to employees, and who has authorization to take prompt corrective measures to eliminate them.

(6) "Excavation" means any man-made cut, cavity, trench, or depression in the earth's surface, including its sides, walls, or faces, formed by earth removal.

(7) "Hazardous atmosphere" means an atmosphere which by reason of being any of the following, may cause death, illness, or injury:

(a) Explosive.

(b) Flammable.

(c) Poisonous.

(d) Corrosive.

(e) Oxidizing.

(f) Irritating.

(g) Oxygen deficient.

(h) Toxic.

(i) Otherwise harmful.

(8) "Kickout" means the accidental release or failure of a stringer or brace.

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(9) "Protective system" means a method of protecting employees from cave-ins, from material that could fall or roll from an excavation face or into an excavation, or from the collapse of adjacent structures. Protective systems include support systems, sloping and benching systems, shield systems, and other systems that provide the necessary protection.

(10) "Qualified person" means an individual who, by possession of a recognized degree or certificate of professional standing, or who, by extensive knowledge, training, and experience, has successfully demonstrated the ability to solve or resolve problems relating to the subject matter and work.

(11) "Ramp" means an inclined walking or working surface that is used to gain access to 1 point from another and is constructed from earth or from structural materials such as steel or wood.

(12) "Registered professional engineer" means a person who is registered as a professional engineer in the state where the work is to be performed. However, a professional engineer, registered in any state is deemed to be a registered professional engineer within the meaning of this standard when approving designs for manufactured protective systems or tabulated data to be used in interstate commerce.

History: 1979 AC; 1988 AACs; 1993 AACs; 2023 MR 24, Eff. Jan. 3, 2024.

**R 408.40926 Definitions; S.**

Rule 926. (1) "Sheeting" means the members of a shoring system that retain the earth in position and in turn are supported by other members of the shoring system.

(2) "Sheet piling" means a continuous row of timber or steel piles driven in close contact to provide a tight wall to resist lateral pressure of water, adjacent earth, or other materials.

(3) "Shield" or "shield system" means a structure that is able to withstand the forces imposed on it by a cave-in and thereby protect employees within the structure. Shields can be permanent structures or can be designed to be portable and moved along as work progresses. Additionally, shields can be either premanufactured or job-built in accordance with R 408.40932, R 408.40942, R 408.40943, R 408.40945, and R 408.40953. Shields used in trenches are usually referred to as trench boxes or trench shields.

(4) "Shoring" or "shoring system" means a structure such as a metal hydraulic, mechanical, or timber shoring system that supports the sides of an excavation and which is designed to prevent cave-ins.

(5) "Sides" sometimes called faces or walls, mean the vertical or inclined earth surfaces formed as a result of excavation work.

(6) "Slope" means the acute angle formed by the side of a trench or excavation and the horizontal plane.

(7) "Soil" means any of the following:

(a) "Clay" means a very fine textured soil that derives its resistance to displacement from cohesion and may be:

(i) "Soft clay" means a clay-type soil that has an unconfined strength of less than 1.0 ton per square foot.

(ii) "Medium clay" or "plastic" means a clay-type soil that has a minimum unconfined strength of 1.0 ton per square foot.

(iii) "Firm soil" means a clay-type soil that is resistant to forces causing rupture or displacement. A firm clay has a minimum unconfined strength of 1.5 tons per square foot.

(iv) "Stiff clay" means a clay-type soil that is very resistant to forces causing rupture or displacement. A stiff clay has a minimum unconfined strength of 2.5 tons per square foot.

(b) "Fill" means a manmade soil condition that may be constructed of any type of soil or combination thereof.

(c) "Granular soil" means a coarse grained soil that does not possess cohesion but derives its strength from internal friction.

(d) "Organic soil" means a soil that contains significant amounts of peat, muck, or marl.

(e) "Running soil" means any type of soil that has insufficient strength to stand unsupported. Running soil tends to run or slough into the excavation as the excavation is being dug.

(8) "Stringers" mean the horizontal members of a trench shoring system whose sides bear against the uprights or earth.

(9) "Structural ramp" means a ramp built of steel or wood, usually used for vehicle access. Ramps made of soil or rock are not considered structural ramps.

(10) "Support system" means a structure such as underpinning, bracing, or shoring, which provides support to an adjacent structure, underground installation, or the sides of an excavation.

History: 1979 AC; 2023 MR 24, Eff. Jan. 3, 2024.

**R 408.40927 Definitions; T, U.**

Rule 927. (1) "Tabulated data" means tables and charts approved by a registered professional engineer and used to design and construct a protective system.

(2) "Toe of slope" means the point at which the side of an excavation intersects the lowest level of the excavation.

(3) "Trench" means an excavation having a depth greater than its width measured at the bottom.

(4) "Trench jack" means a screw or hydraulic jack used as a brace in a trench shoring system.

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(5) "Trench shield," sometimes called a trench box, means a trench shoring system composed of steel plates and bracing, welded or bolted together, which can be moved along as work progresses.

(6) "Uprights" mean the vertical members of a trench shoring system.

History: 1979 AC; 2023 MR 24, Eff. Jan. 3, 2024.

**R 408.40931**

**Source:** 1979 AC.

**R 408.40932 Excavation; consideration of soil types; water; slide hazards.**

Rule 932. (1) If different textured soils are encountered in the side of an excavation, each soil type of the excavation shall be cut to the proper angle of repose, except that the slope shall not steepen between the toe of the slope and the ground level where soft clay or running soil is encountered in the lower cut. (2) An employee shall not work in an excavation in which there is accumulated water or in which water is accumulating unless precautions have been taken to protect employees against the hazards posed by water accumulation. The precautions necessary to protect employees adequately vary with each situation, but may include special support or shield systems to protect from cave-ins, water removal to control the level of accumulating water, or the use of a safety harness and lifeline.

(3) If water is controlled or prevented from accumulating by the use of water removal equipment, the water removal equipment and operation shall be monitored by a competent person or a monitoring system to ensure that the equipment is properly operated.

(4) An ongoing inspection of an excavation or trench shall be made by a competent person. After every rainstorm or other hazard-producing occurrence, an inspection shall be made by a competent person for evidence of possible slides or cave-ins. Where these conditions are found, all work shall cease until additional precautions, such as additional shoring or reducing the slope, have been accomplished.

(5) When installed forms, walls, or similar structures create a trench between the form, wall, or structure and the side of the excavation, an employer shall comply with the provisions of R 408.40941 to R 408.40944.

History: 1979 AC; 1993 AACS; 2013 AACS; 2023 MR 24, Eff. Jan. 3, 2024.

**R 408.40933 Excavation; obstructions; retaining materials; egress; guarding; heavy equipment.**

Rule 933. (1) A tree, boulder, rock fragment, or other obstruction whose movement could cause injury to an employee shall be removed or supported.

(2) An excavation that an employee is required to enter shall have excavated and other material stored and retained not less than 2 feet from the excavation edge.

(3) When mobile equipment is utilized or permitted adjacent to an excavation where the operator's vision is restricted, stop logs or barricades shall be utilized or a signal person shall be used.

(4) An excavation 48 or more inches in depth and occupied by an employee shall be provided with either a ladder extending not less than 3 feet above the top as a means of access or with a ramp meeting the requirements of subrule (5) of this rule. Lateral travel along the wall of a trench to a ladder or other means of egress shall not exceed 25 feet.

(5) An earth ramp may be used in place of a ladder if it meets all of the following requirements:

(a) The ramp material shall be stable.

(b) The sides of the excavation above the ramp shall be maintained to the angle of repose or sheeted or shored along the means of egress.

(c) The degree of angle of the ramp shall not be more than 45 degrees.

(d) Vertical height between the floor of the trench and the toe of the ramp shall not exceed 30 inches.

(6) Structural ramps that are used solely by employees as a means of access or egress from excavations shall be designed by a competent person. Structural ramps used for access or egress of equipment shall be designed by a competent person qualified in structural design and shall be constructed in accordance with the design.

(7) Ramps and runways constructed of 2 or more structural members shall have the structural members connected together to prevent displacement.

(8) Structural members used for ramps and runways shall be of uniform thickness.

(9) Cleats or other appropriate means used to connect runway structural members shall be attached to the bottom of the runway or shall be attached in a manner to prevent tripping.

(10) Structural ramps used in lieu of steps shall be provided with cleats or other surface treatments on the top surface to prevent slipping.

History: 1979 AC; 2013 AACS; 2023 MR 24, Eff. Jan. 3, 2024.

**R 408.40934**

Source: 1993 AACCS.

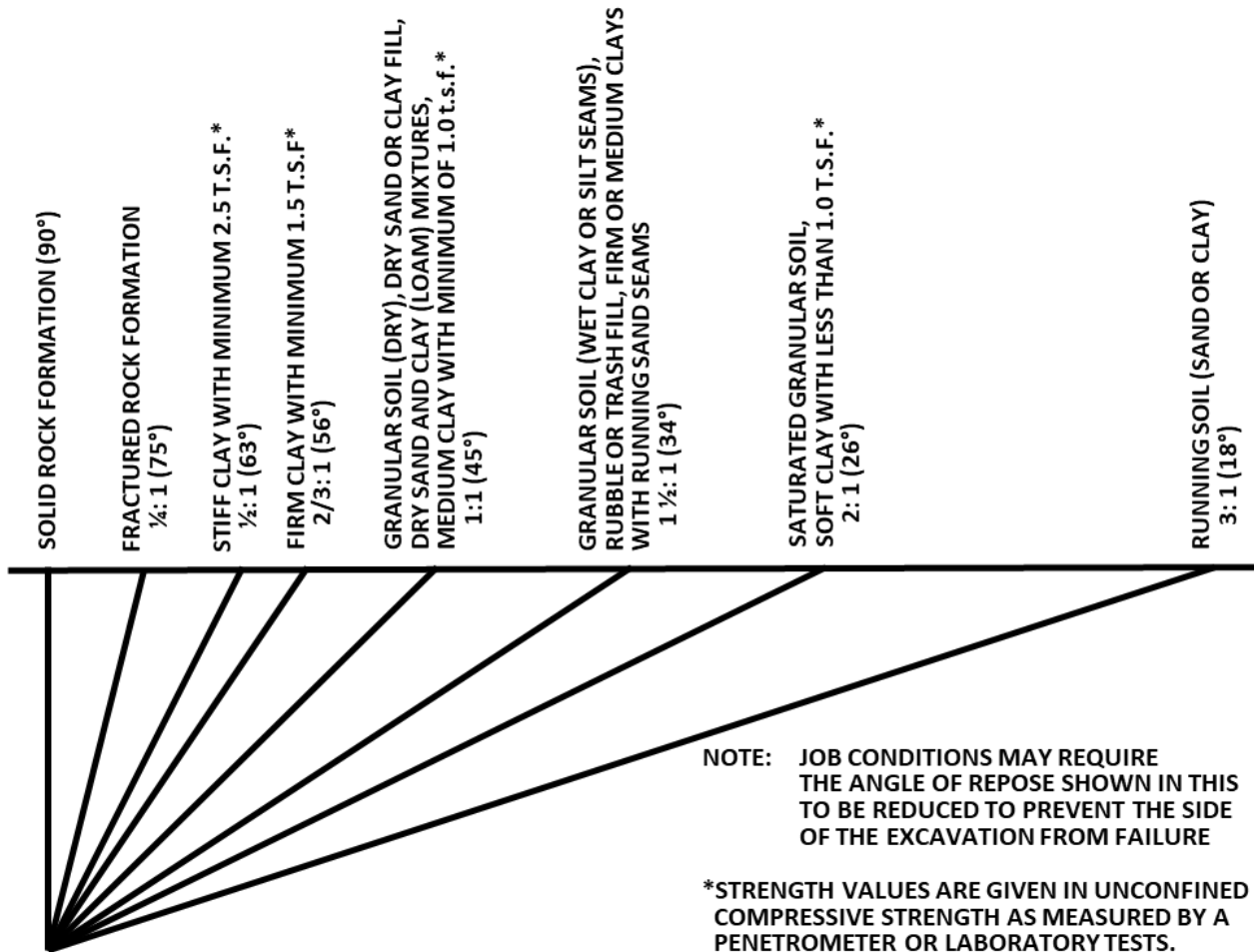
**R 408.40941 Excavation; angle of repose.**

Rule 941. (1) The side of an excavation more than 5 feet deep shall be sloped as prescribed in table 1, unless supported as prescribed in this part.

(2) An excavation less than 5 feet in depth shall also be effectively protected when examination of the ground indicates hazardous earth movement may be expected.

TABLE 1

MAXIMUM ALLOWABLE ANGLE OF REPOSE FOR THE SIDE OF AN EXCAVATION IN EXCESS OF 5' DEPTH



History: 1979 AC; 2013 AACCS; 2023 MR 24, Eff. Jan. 3, 2024.

**R 408.40942 Supporting systems; angle of repose; tie backs; sheeting; additional bracing.**

Rule 942. (1) The angle of repose and the design of the supporting system for a side of an excavation shall be based on the evaluation of all of the following factors:

- Depth of cut and type of soil.
- Possible variation in the water content of the material while the excavation is open.
- Anticipated changes in the material due to exposure to air, sun, water, or freezing temperatures.



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- (d) Load imposed by structures, equipment, overlying material, or stored material.
  - (e) Vibration from traffic, equipment, or blasting.
  - (2) A support system shall be designed by a qualified person. The design of the support system shall be maintained at the jobsite. Changes from the design of the support system shall be approved by a qualified person.
  - (3) Tie rods and other forms of tie backs used to restrain the top of sheeting shall be anchored a minimum of 10 feet. The measurement to the anchor point shall start at the intersection of an angle of repose with the surface of the soil retained. The tie back and anchor shall be capable of restraining any pressure exerted on the system.
  - (4) When sheeting or sheet piling is used, pressures due to existing ground water conditions shall be considered in the design. Sheet piling shall be driven to the predetermined depth set forth in the required design. Changes from the design shall be approved by the designer of the support system.
  - (5) Materials used for a supporting system shall be in good serviceable condition. When timbers are used, they shall be sound and free of large or loose knots.
  - (6) A supporting system shall include additional bracing approved by the designer of the support system when the sides of excavations are cut adjacent to a previous known excavation or a known fill, particularly when the separation between the previous excavation and the new excavation is less than the depth of the excavation.
  - (7) Sheeting shall be braced or anchored at the bottom and along the vertical plane to prevent lateral movement.
  - (8) Protective systems for use in excavations more than 20 feet in depth must be designed by a registered professional engineer.
- History: 1979 AC; 2023 MR 24, Eff. Jan. 3, 2024.

**R 408.40943 Additional requirements for trench support systems.**

- Rule 943. (1) Members of support systems shall be securely connected together to prevent sliding, falling, kickouts, or other predictable failure.
- (2) The backfilling and the removal of a support system for a trench shall progress together from the bottom of the trench. In unstable or running soil, the jacks and braces shall be removed from above the trench after employees have cleared the trench.
  - (3) The excavation of material to a level that is not more than 2 feet, .61 m, below the bottom of the members of a support system shall be permitted, but only if the system is designed to resist the forces calculated for the full depth of the trench and if there are no indications, while the trench is open, of a possible loss of soil from behind or below the bottom of the support system.
  - (4) The installation of a support system shall be closely coordinated with the excavation of trenches.
  - (5) Support systems shall be installed and removed in a manner that protects employees from cave-ins, structural collapses, or from being struck by members of the support system.
  - (6) Individual members of support systems shall not be subjected to loads exceeding those which those members were designed to withstand.
  - (7) Before temporary removal of individual members begins, additional precautions shall be taken to ensure the safety of employees, such as installing other structural members to carry the loads imposed on the support system.
- History: 1979 AC; 1993 AACS; 2023 MR 24, Eff. Jan. 3, 2024.

**R 408.40944**

**Source:** 1993 AACS.

**R 408.40945 Trenching boxes and shields.**

- Rule 945. (1) Portable trench boxes or sliding trench shields may be used for the protection of personnel in place of a shoring system or sloping. Where such trench boxes or shields are used, they shall be designed, constructed, and maintained in a manner that provides protection equal to or greater than the sheeting or shoring required for the trench.
- (2) The use of benching in conjunction with a portable trench box is permitted when the toe of the trench box is not more than 2 feet above the trench bottom, but only if the trench box is designed to resist the forces calculated for the full depth of the trench and if there are no indications, while the trench is open, of a possible cave-in below the bottom of the trench box.
  - (3) An employee shall not be allowed in shields when shields are being installed, removed, or moved vertically.
  - (4) Shield systems shall not be subjected to loads exceeding those which the system was designed to withstand.
  - (5) Shields shall be installed in a manner to restrict lateral or other hazardous movement of the shield in the event of the application of sudden lateral loads.
  - (6) Employees shall be protected from the hazard of cave-ins when entering or exiting the areas protected by shields.
- History: 1979 AC; 1993 AACS; 2023 MR 24, Eff. Jan. 3, 2024.

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**R 408.40946**

**Source:** 2013 AACS.

**R 408.40951 Walkways, sidewalks, roadways.**

Rule 951. (1) Sidewalks, pavements, and appurtenant structure shall not be undermined unless a support system or another method of protection is provided to protect employees from the possible collapse of such structures.

(2) If an employee or equipment is required or permitted to cross a trench or ditch, a walkway, runway, ramp, or bridge shall be provided and shall have a designed capacity of not less than 3 times the imposed load. A guardrail prescribed by the provisions of Construction Safety and Health Standard Part 21. Guarding of Walking and Working Areas, R 408.421 to R 408.42160 and Construction Safety Standard Part 45. Fall Protection, R 408.42101 and R 408.44501, shall be provided.

History: 1979 AC; 1993 AACS; 1996 AACS; 2013 AACS; 2023 MR 24, Eff. Jan. 3, 2024.

**R 408.40952**

**Source:** 2013 AACS.

**R 408.40953 Adjacent structures; protection; design; inspection of shoring, bracing, and underpinning.**

Rule 953. (1) A structure that is adjacent to an excavation or trench below the level of the base or footing of any foundation or retaining wall shall be protected against settlement, lateral movement, undermining, or washout.

(2) Before the excavation begins, the design of the protection used shall be set forth by a qualified person who is knowledgeable in the subject area.

(3) The shoring, bracing, and underpinning shall be inspected daily or more often, as conditions warrant, by a competent person.

(4) Where the stability of adjoining buildings, walls, or other structures is endangered by excavation operations, support systems such as shoring, bracing, or underpinning shall be provided to ensure the stability of such structures for the protection of employees.

(5) Excavation below the level of the base or footing of any foundation or retaining wall that could be reasonably expected to pose a hazard to employees shall not be permitted except when 1 of the following applies:

(a) A support system, such as underpinning, is provided to ensure the safety of employees and the stability of the structure.

(b) The excavation is in stable rock.

(c) A registered professional engineer has approved the determination that the structure is sufficiently removed from the excavation so as to be unaffected by the excavation activity.

(d) A registered professional engineer has approved the determination that such excavation work will not pose a hazard to employees.

History: 1979 AC; 1993 AACS; 2023 MR 24, Eff. Jan. 3, 2024.

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**PART 10. CRANES AND DERRICKS**

**R 408.41001**

**Source:** 2021 AACS.

**R 408.41001a**

**Source:** 2016 AACS.

**R 408.41002a**

**Source:** 2012 AACS.

**R 408.41003**

**Source:** 2018 AACS.

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**R 408.41003a**  
Source: 2018 AACS.

**R 408.41003b**  
Source: 2018 AACS.

**R 408.41003c**  
Source: 2018 AACS.

**R 408.41003d**  
Source: 2018 AACS.

**R 408.41003e**  
Source: 2018 AACS.

**R 408.41003f**  
Source: 2018 AACS.

**R 408.41004a**  
Source: 2016 AACS.

**R 408.41005a**  
Source: 2016 AACS.

**R 408.41006**  
Source: 2018 AACS.

**R 408.41006a**  
Source: 2018 AACS.

**R 408.41006b**  
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**R 408.41006c**  
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**R 408.41006d**  
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**R 408.41006e**  
Source: 2018 AACS.

**R 408.41007**  
Source: 2018 AACS.

**R 408.41007a**  
Source: 2012 AACS.

**R 408.41008a**  
Source: 2016 AACS.

**R 408.41009a**  
Source: 2016 AACS.

**R 408.41009b**  
Source: 2016 AACS.

**R 408.41010a**

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**Source:** 2012 AACCS.

**R 408.41011a**

**Source:** 2016 AACCS.

**R 408.41011b**

**Source:** 2016 AACCS.

**R 408.41011c**

**Source:** 2016 AACCS.

**R 408.41011d**

**Source:** 2016 AACCS.

**R 408.41011e**

**Source:** 2016 AACCS.

**R 408.41012a**

**Source:** 2016 AACCS.

**R 408.41013a**

**Source:** 2016 AACCS.

**R 408.41014a**

**Source:** 2016 AACCS.

**R 408.41015a**

**Source:** 2016 AACCS.

**R 408.41016a**

**Source:** 2016 AACCS.

**R 408.41016b**

**Source:** 2016 AACCS.

**R 408.41016c**

**Source:** 2016 AACCS.

**R 408.41016d**

**Source:** 2016 AACCS.

**R 408.41016e**

**Source:** 2016 AACCS.

**R 408.41017a**

**Source:** 2016 AACCS.

**R 408.41018a**

**Source:** 2016 AACCS.

**R 408.41019a**

**Source:** 2016 AACCS.

**R 408.41019b**

**Source:** 2016 AACCS.

**R 408.41019c**

**Source:** 2016 AACCS.

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**R 408.41020a**  
Source: 2016 AACS.

**R 408.41021a**  
Source: 2016 AACS.

**R 408.41021b**  
Source: 2016 AACS.

**R 408.41022a**  
Source: 2016 AACS.

**R 408.41023a**  
Source: 2016 AACS.

**R 408.41024a**  
Source: 2016 AACS.

**R 408.41025a**  
Source: 2016 AACS.

**R 408.41025b**  
Source: 2016 AACS.

**R 408.41026a**  
Source: 2016 AACS.

**R 408.41027a**  
Source: 2016 AACS.

**R 408.41028a**  
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**R 408.41029a**  
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**R 408.41030a**  
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**R 408.41031a**  
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**R 408.41032a**  
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**R 408.41033a**  
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**R 408.41034a**  
Source: 2016 AACS.

**R 408.41035**  
Source: 2018 AACS.

**R 408.41035a**  
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**R 408.41035b**  
Source: 2018 AACS.

**R 408.41035c**  
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**R 408.41035d**  
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**R 408.41036**  
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**R 408.41036a**  
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**R 408.41037**  
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**R 408.41037a**  
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**R 408.41037b**  
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**R 408.41038**  
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**R 408.41038a**  
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**R 408.41038b**  
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**R 408.41038c**  
Source: 2018 AACS.

**R 408.41039**

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**Source:** 2018 AACS.

**R 408.41039a**

**Source:** 2016 AACS.

**R 408.41039b**

**Source:** 2018 AACS.

**R 408.41040**

**Source:** 2018 AACS.

**R 408.41041a**

**Source:** 2016 AACS.

**R 408.41051a**

**Source:** 2016 AACS.

**R 408.41052**

**Source:** 2018 AACS.

**R 408.41052a**

**Source:** 2018 AACS.

**R 408.41052b**

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**R 408.41053g**

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**R 408.41054**

**Source:** 2018 AACS.

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**Source:** 2018 AACS.

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**R 408.41055b**  
Source: 2018 AACCS.

**R 408.41055c**  
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**R 408.41056**  
Source: 2018 AACCS.

**R 408.41056a**  
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**R 408.41056g**  
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**R 408.41056h**  
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**R 408.41056i**  
Source: 2016 AACCS.

**R 408.41057**  
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**R 408.41058**  
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**R 408.41060**  
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**R 408.41060a**  
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**R 408.41060b**  
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**R 408.41060c**  
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**R 408.41061**  
Source: 2018 AACCS.

**R 408.41061a**



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**Source:** 2018 AACS.

**R 408.41061b**

**Source:** 2018 AACS.

**R 408.41061c**

**Source:** 2018 AACS.

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**R 408.41062**

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**R 408.41065a**

**Source:** 2016 AACS.

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**R 408.41070a**

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**R 408.41070b**

**Source:** 2016 AACS.

**R 408.41071a**

**Source:** 2016 AACS.

**R 408.41072a**

**Source:** 2016 AACS.

**R 408.41073a**

**Source:** 2016 AACS.

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**R 408.41074a**  
Source: 2016 AACS.

**R 408.41075a**  
Source: 2016 AACS.

**R 408.41077a**  
Source: 2012 AACS.

**R 408.41080**  
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**R 408.41080a**  
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**R 408.41080k**  
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**R 408.41080l**  
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**R 408.41080m**  
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**R 408.41080n**  
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**R 408.41080o**  
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**R 408.41081**  
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**R 408.41082**

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**Source:** 2018 AACS.

**R 408.41082a**

**Source:** 2018 AACS.

**R 408.41082b**

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**R 408.41082c**

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**R 408.41083**

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**R 408.41084**

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**R 408.41084a**

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**R 408.41085d**  
Source: 2018 AACCS.

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**R 408.41090**  
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**R 408.41090c**  
Source: 2018 AACS.

**R 408.41090d**  
Source: 2018 AACS.

**R 408.41090e**  
Source: 2018 AACS.

**R 408.41099a**  
Source: 2012 AACS.

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**CONSTRUCTION SAFETY AND HEALTH STANDARD**

**PART 11. FIXED AND PORTABLE LADDERS**

**R 408.41101**  
Source: 1993 AACS.

**R 408.41102**  
Source: 2013 AACS.

**R 408.41102a**  
Source: 2019 AACS.

**R 408.41103**  
Source: 1993 AACS.

**R 408.41104**  
Source: 1993 AACS.

**R 408.41105**  
Source: 2014 AACS.

**R 408.41111**  
Source: 2014 AACS.

**R 408.41112**  
Source: 1993 AACS.

**R 408.41113**  
Source: 2014 AACS.

**R 408.41115**  
Source: 2013 AACS.

**R 408.41121**  
Source: 2014 AACS.

**R 408.41122**  
Source: 2013 AACS.

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**R 408.41123**  
**Source:** 2014 AACS.

**R 408.41124**  
**Source:** 2019 AACS.

**R 408.41125**  
**Source:** 2013 AACS.

**R 408.41126**  
**Source:** 2013 AACS.

**R 408.41127**  
**Source:** 2014 AACS.

**R 408.41128**  
**Source:** 1990 AACS.

**R 408.41129**  
**Source:** 1990 AACS.

**R 408.41130**  
**Source:** 2013 AACS.

**R 408.41131**  
**Source:** 2013 AACS.

**R 408.41132**  
**Source:** 2013 AACS.

**R 408.41133**  
**Source:** 2013 AACS.

**R 408.41140**  
**Source:** 2019 AACS.

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**CONSTRUCTION SAFETY AND HEALTH STANDARD**

**PART 12. SCAFFOLDS AND SCAFFOLD PLATFORMS**

**R 408.41201**  
**Source:** 2018 AACS.

**R 408.41202**  
**Source:** 2018 AACS.

**R 408.41203**  
**Source:** 2018 AACS.

**R 408.41204**  
**Source:** 2018 AACS.

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**R 408.41205**  
Source: 2018 AACS.

**R 408.41206**  
Source: 2018 AACS.

**R 408.41207**  
Source: 2018 AACS.

**R 408.41208**  
Source: 2018 AACS.

**R 408.41209**  
Source: 2018 AACS.

**R 408.41210**  
Source: 2018 AACS.

**R 408.41211**  
Source: 2018 AACS.

**R 408.41212**  
Source: 2018 AACS.

**R 408.41213**  
Source: 2018 AACS.

**R 408.41214**  
Source: 1998-2000 AACS.

**R 408.41215**  
Source: 2018 AACS.

**R 408.41215**  
Source: 2013 AACS.

**R 408.41217**  
Source: 2018 AACS.

**R 408.41218**  
Source: 1981 AACS.

**R 408.41219**  
Source: 2018 AACS.

**FLOOR AND GROUND SUPPORTED SCAFFOLDS**

**R 408.41221**  
Source: 2013 AACS.

**R 408.41222**  
Source: 2013 AACS.

**R 408.41223**  
Source: 2016 AACS.

**R 408.41224**  
Source: 2018 AACS.

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**R 408.41225**  
Source: 2018 AACCS.

**R 408.41226**  
Source: 2018 AACCS.

**R 408.41227**  
Source: 2016 AACCS.

**R 408.41228**  
Source: 2013 AACCS.

**R 408.41229**  
Source: 2018 AACCS.

**SUSPENDED SCAFFOLDS**

**R 408.41231**  
Source: 2013 AACCS.

**R 408.41232**  
Source: 2016 AACCS.

**R 408.41233**  
Source: 2018 AACCS.

**R 408.41234**  
Source: 2018 AACCS.

**R 408.41235**  
Source: 2013 AACCS.

**R 408.41236**  
Source: 2013 AACCS.

**R 408.41237**  
Source: 2013 AACCS.

**R 408.41238**  
Source: 1996 AACCS.

**R 408.41239**  
Source: 2018 AACCS.

**R 408.41240**  
Source: 2018 AACCS.

**MOBILE SCAFFOLDS**

**R 408.41241**  
Source: 2018 AACCS.

**R 408.41243**  
Source: 2018 AACCS.

**R 408.41244**  
Source: 2013 AACCS.



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**R 408.41245**  
Source: 2013 AACS.

**R 408.41246**  
Source: 2013 AACS.

**AUXILIARY SUPPORTED SCAFFOLDS**

**R 408.41251**  
Source: 2016 AACS.

**R 408.41253**  
Source: 2013 AACS.

**R 408.41254**  
Source: 2016 AACS.

**R 408.41255**  
Source: 2013 AACS.

**R 408.41256**  
Source: 2018 AACS.

**R 408.41256a**  
Source: 2018 AACS.

**R 408.41256b**  
Source: 2018 AACS.

**WIRE, FIBER, AND SYNTHETIC ROPE**

**R 408.41261**  
Source: 2016 AACS.

**WIRE, FIBER, AND SYNTHETIC ROPE**

**R 408.41261**  
Source: 2013 AACS.

**R 408.41262**  
Source: 2013 AACS.

**R 408.41263**  
Source: 2013 AACS.

**R 408.41264**  
Source: 2013 AACS.

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**PART 13. MOBILE EQUIPMENT**

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**R 408.41301**  
**Source:** 2021 AACS.

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**PART 14. TUNNELS, SHAFTS, CAISSONS, AND COFFERDAMS**

**R 408.41401**  
**Source:** 2014 AACS.

**R 408.41405**  
**Source:** 2019 AACS.

**R 408.41410**  
**Source:** 2021 AACS.

**R 408.41454**  
**Source:** 2003 AACS.

**R 408.41455**  
**Source:** 2019 AACS.

**R 408.41456**  
**Source:** 2003 AACS.

**R 408.41461**  
**Source:** 2021 AACS.

**R 408.41462**  
**Source:** 2013 AACS.

**R 408.41463**  
**Source:** 2014 AACS.

**R 408.41464**  
**Source:** 2014 AACS.

**R 408.41465**  
**Source:** 2013 AACS.

**R 408.41466**  
**Source:** 2014 AACS.

**R 408.41467**  
**Source:** 2021 AACS.

**R 408.41468**  
**Source:** 2013 AACS.

**TUNNELS AND SHAFTS**

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**R 408.41471**  
**Source:** 2019 AACS.

**R 408.41472**  
**Source:** 2014 AACS.

**R 408.41473**  
**Source:** 1979 AC.

**R 408.41474**  
**Source:** 2014 AACS.

**R 408.41475**  
**Source:** 2014 AACS.

**R 408.41475a**  
**Source:** 2021 AACS.

**R 408.41476**  
**Source:** 2014 AACS.

**R 408.41477**  
**Source:** 2021 AACS.

**R 408.41477a**  
**Source:** 2013 AACS.

**R 408.41478**  
**Source:** 2021 AACS.

**R 408.41479**  
**Source:** 2014 AACS.

**COFFERDAMS AND CAISSONS**

**R 408.41481**  
**Source:** 2014 AACS.

**R 408.41482**  
**Source:** 2014 AACS.

**R 408.41483**  
**Source:** 2014 AACS.

**PART 15. EXCAVATORS, HOISTS, ELEVATORS, HELICOPTERS, AND CONVEYORS**

**GENERAL PROVISIONS**

**R 408.41501**  
**Source:** 2016 AACS.

**R 408.41505**  
**Source:** 2016 AACS.

**R 408.41510**

**Annual Administrative Code Supplement**  
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**Source:** 2016 AACS.

**R 408.41515**

**Source:** 2016 AACS.

**EXCAVATORS**

**R 408.41520**

**Source:** 2016 AACS.

**R 408.41521**

**Source:** 2016 AACS.

**R 408.41522**

**Source:** 2016 AACS.

**R 408.41523**

**Source:** 2016 AACS.

**R 408.41524**

**Source:** 2016 AACS.

**R 408.41525**

**Source:** 2016 AACS.

**R 408.41526**

**Source:** 2016 AACS.

**R 408.41527**

**Source:** 2016 AACS.

**HOISTS AND ELEVATORS**

**R 408.41530**

**Source:** 2016 AACS.

**R 408.41531**

**Source:** 2016 AACS.

**GENERAL REQUIREMENTS FOR MATERIAL HOISTS, PERSONNEL HOISTS, AND ELEVATORS**

**R 408.41540**

**Source:** 2016 AACS.

**R 408.41541**

**Source:** 2016 AACS.

**R 408.41542**

**Source:** 2016 AACS.

**R 408.41543**

**Source:** 2016 AACS.

**MATERIAL HOISTS – ADDITIONAL REQUIREMENTS**

**R 408.41550**

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**Source:** 2016 AACS.

**PERSONNEL HOISTS AND ELEVATORS - ADDITIONAL REQUIREMENTS**

**R 408.41560**

**Source:** 2016 AACS.

**R 408.41561**

**Source:** 2016 AACS.

**R 408.41562**

**Source:** 2016 AACS.

**R 408.41563**

**Source:** 2016 AACS.

**R 408.41564**

**Source:** 2016 AACS.

**BASE-MOUNTED DRUM HOISTS**

**R 408.41570**

**Source:** 2016 AACS.

**OVERHEAD HOISTS**

**R 408.41580**

**Source:** 2016 AACS.

**HELICOPTERS**

**R 408.41590**

**Source:** 2016 AACS.

**CONVEYORS**

**R 408.41595**

**Source:** 2016 AACS.

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**PART 16. POWER TRANSMISSION AND DISTRIBUTION**

**R 408.41601**

**Source:** 2015 AACS.

**R 408.41605**

**Source:** 2016 AACS.

**R 408.41610**

**Source:** 2016 AACS.

**R 408.41625**

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**Source:** 2015 AACS.

**R 408.41626**

**Source:** 2015 AACS.

**R 408.41627**

**Source:** 2015 AACS.

**R 408.41628**

**Source:** 2015 AACS.

**R 408.41629**

**Source:** 2015 AACS.

**R 408.41630**

**Source:** 2015 AACS.

**R 408.41631**

**Source:** 2015 AACS.

**R 408.41632**

**Source:** 2015 AACS.

**R 408.41633**

**Source:** 2015 AACS.

**R 408.41634**

**Source:** 2015 AACS.

**R 408.41635**

**Source:** 2015 AACS.

**R 408.41636**

**Source:** 2015 AACS.

**R 408.41637**

**Source:** 2015 AACS.

**R 408.41638**

**Source:** 2015 AACS.

**R 408.41639**

**Source:** 2015 AACS.

**R 408.41640**

**Source:** 2015 AACS.

**R 408.41641**

**Source:** 2015 AACS.

**R 408.41642**

**Source:** 2015 AACS.

**R 408.41643**

**Source:** 2015 AACS.

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**R 408.41644**  
**Source:** 2015 AACS.

**R 408.41645**  
**Source:** 2015 AACS.

**R 408.41646**  
**Source:** 2015 AACS.

**R 408.41647**  
**Source:** 2015 AACS.

**R 408.41648**  
**Source:** 2015 AACS.

**R 408.41649**  
**Source:** 2015 AACS.

**R 408.41650**  
**Source:** 2015 AACS.

**R 408.41651**  
**Source:** 2015 AACS.

**R 408.41652**  
**Source:** 2015 AACS.

**R 408.41653**  
**Source:** 2015 AACS.

**R 408.41654**  
**Source:** 2015 AACS.

**R 408.41655**  
**Source:** 2015 AACS.

**R 408.41656**  
**Source:** 2015 AACS.

**R 408.41657**  
**Source:** 2015 AACS.

**R 408.41658**  
**Source:** 2015 AACS.

**PART 17. ELECTRICAL INSTALLATIONS**

**R 408.41701**  
**Source:** 1979 AC.

**R 408.41717**  
**Source:** 1979 AC.

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**R 408.41718**  
**Source:** 1979 AC.

**R 408.41719**  
**Source:** 2013 AACS.

**R 408.41720**  
**Source:** 1979 AC.

**R 408.41722**  
**Source:** 1979 AC.

**R 408.41723**  
**Source:** 1979 AC.

**R 408.41724**  
**Source:** 1979 AC.

**R 408.41725**  
**Source:** 2013 AACS.

**R 408.41726**  
**Source:** 1979 AC.

**R 408.41727**  
**Source:** 1979 AC.

**R 408.41728**  
**Source:** 2013 AACS.

**R 408.41729**  
**Source:** 1979 AC.

**R 408.41730**  
**Source:** 1979 AC.

**R 408.41731**  
**Source:** 1979 AC.

**R 408.41732**  
**Source:** 1979 AC.

**R 408.41733**  
**Source:** 1982 AACS.

**R 408.41734**  
**Source:** 1979 AC.

**PART 18. FIRE PROTECTION AND PREVENTION**

**R 408.41801**  
**Source:** 2002 AACS.

**R 408.41802**  
**Source:** 2015 AACS.



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**R 408.41836**  
**Source:** 2015 AACs.

**R 408.41837**  
**Source:** 2015 AACs.

**R 408.41838**  
**Source:** 2015 AACs.

**R 408.41841**  
**Source:** 2015 AACs.

**R 408.41842**  
**Source:** 2013 AACs.

**R 408.41850**  
**Source:** 2013 AACs.

**R 408.41851**  
**Source:** 2015 AACs.

**R 408.41852**  
**Source:** 2015 AACs.

**R 408.41853**  
**Source:** 2015 AACs.

**R 408.41854**  
**Source:** 2015 AACs.

**R 408.41855**  
**Source:** 2015 AACs.

**R 408.41856**  
**Source:** 1983 AACs.

**R 408.41851**  
**Source:** 2015 AACs.

**R 408.41852**  
**Source:** 2015 AACs.

**R 408.41853**  
**Source:** 2015 AACs.

**R 408.41854**  
**Source:** 2015 AACs.

**R 408.41855**  
**Source:** 2015 AACs.

**R 408.41873**  
**Source:** 1983 AACs.

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**R 408.41874**

Source: 2015 AACS.

**R 408.41875**

Source: 2015 AACS.

**R 408.41876**

Source: 2015 AACS.

**R 408.41877**

Source: 2015 AACS.

**R 408.41877a**

Source: 2015 AACS.

**R 408.41878**

Source: 2015 AACS.

**R 408.41879**

Source: 2015 AACS.

**R 408.41881**

Source: 2015 AACS.

**R 408.41882**

Source: 2015 AACS.

**R 408.41883**

Source: 2015 AACS.

**TEMPORARY HEATING DEVICES**

**R 408.41884**

Source: 2015 AACS.

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**PART 19. TOOLS**

**R 408.41901**

Source: 2016 AACS.

**R 408.41902**

Source: 2016 AACS.

**R 408.41926**

Source: 1989 AACS.

**R 408.41927**

Source: 2016 AACS.

**R 408.41928**

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**Source:** 1989 AACS.

**R 408.41929**

**Source:** 1989 AACS.

**R 408.41931**

**Source:** 2013 AACS.

**R 408.41932**

**Source:** 2016 AACS.

**R 408.41933**

**Source:** 1989 AACS.

**R 408.41934**

**Source:** 2013 AACS.

**R 408.41935**

**Source:** 2013 AACS.

**R 408.41936**

**Source:** 2016 AACS.

**R 408.41937**

**Source:** 2016 AACS.

**R 408.41938**

**Source:** 1979 AC.

**R 408.41941**

**Source:** 1979 AC.

**R 408.41942**

**Source:** 2016 AACS.

**R 408.41943**

**Source:** 2016 AACS.

**R 408.41944**

**Source:** 1997 AACS.

**R 408.41945**

**Source:** 2016 AACS.

**R 408.41949**

**Source:** 2016 AACS.

**R 408.41950**

**Source:** 1979 AC.

**R 408.41951**

**Source:** 2016 AACS.

**R 408.41952**

**Source:** 2016 AACS.

**R 408.41953**

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**Source:** 2013 AACs.

**R 408.41954**

**Source:** 203 AACs.

**R 408.41955**

**Source:** 1989 AACs.

**R 408.41956**

**Source:** 2013 AACs.

**R 408.41957**

**Source:** 2013 AACs.

**R 408.41958**

**Source:** 1997 AACs.

**R 408.41959**

**Source:** 2016 AACs.

**R 408.41960**

**Source:** 2016 AACs.

**R 408.41961**

**Source:** 1995 AACs.

**R 408.41962**

**Source:** 1989 AACs.

**R 408.41963**

**Source:** 1997 AACs.

**R 408.41964**

**Source:** 2013 AACs.

**R 408.41966**

**Source:** 1995 AACs.

**R 408.41967**

**Source:** 1979 AC.

**R 408.41968**

**Source:** 1979 AC.

**R 408.41969**

**Source:** 2016 AACs.

**R 408.41970**

**Source:** 2013 AACs.

**R 408.41971**

**Source:** 2013 AACs.

**R 408.41972**

**Source:** 1989 AACs.

**R 408.41973**

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**Source:** 1989 AACS.

**R 408.41974**

**Source:** 2013 AACS.

**R 408.41975**

**Source:** 2013 AACS.

**R 408.41976**

**Source:** 1989 AACS.

**R 408.41977**

**Source:** 2013 AACS.

**R 408.41978**

**Source:** 1989 AACS.

**R 408.41979**

**Source:** 2013 AACS.

**R 408.41980**

**Source:** 2016 AACS.

**PART 20. DEMOLITION**

**R 408.42001**

**Source:** 1981 AACS.

**R 408.42023**

**Source:** 1998-2000 AACS.

**R 408.42031**

**Source:** 2013 AACS.

**R 408.42032**

**Source:** 1996 AACS.

**R 408.42033**

**Source:** 1981 AACS.

**R 408.42034**

**Source:** 2013 AACS.

**R 408.42041**

**Source:** 2013 AACS.

**R 408.42043**

**Source:** 2013 AACS.

**R 408.42044**

**Source:** 1981 AACS.

**R 408.42045**

**Source:** 2013 AACS.

**R 408.42046**

**Annual Administrative Code Supplement**  
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**Source:** 2013 AACS.

**R 408.42047**

**Source:** 2013 AACS.

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**PART 21. GUARDING OF WALKING AND WORKING AREAS**

**R 408.42101**

**Source:** 2016 AACS.

**R 408.42110**

**Source:** 2021 AACS.

**R 408.42121**

**Source:** 1996 AACS.

**R 408.42122**

**Source:** 1996 AACS.

**R 408.42123**

**Source:** 1996 AACS.

**R 408.42127**

**Source:** 1993 AACS.

**R 408.42128**

**Source:** 2016 AACS.

**R 408.42129**

**Source:** 1993 AACS.

**R 408.42130**

**Source:** 1993 AACS.

**R 408.42131**

**Source:** 2013 AACS.

**R 408.42140**

**Source:** 1997 AACS.

**R 408.42141**

**Source:** 1997 AACS.

**R 408.42142**

**Source:** 1997 AACS.

**R 408.42143**

**Source:** 1997 AACS.

**R 408.42144**

**Source:** 1997 AACS.

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**R 408.42145**  
Source: 2013 AACS.

**R 408.42146**  
Source: 1997 AACS.

**R 408.42147**  
Source: 1997 AACS.

**R 408.42148**  
Source: 1997 AACS.

**R 408.42149**  
Source: 2021 AACS.

**R 408.42150**  
Source: 2021 AACS.

**R 408.42154**  
Source: 2021 AACS.

**R 408.42155**  
Source: 2021 AACS.

**R 408.42156**  
Source: 2021 AACS.

**R 408.42157**  
Source: 2021 AACS.

**R 408.42158**  
Source: 1997 AACS.

**R 408.42159**  
Source: 2013 AACS.

**R 408.42160**  
Source: 2013 AACS.

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**PART 22. SIGNALS, SIGNS, TAGS, AND BARRICADES**

**R 408.42201**  
Source: 2021 AACS.

**R 408.42209**  
Source: 2021 AACS.

**R 408.42210**  
Source: 1997 AACS.

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**R 408.42211**  
Source: 2001 AACS.

**R 408.42212**  
Source: 2001 AACS.

**R 408.42213**  
Source: 2013 AACS.

**R 408.42221**  
Source: 2014 AACS.

**R 408.42222**  
Source: 2001 AACS.

**R 408.42223**  
Source: 2021 AACS.

**R 408.42224**  
Source: 2014 AACS.

**R 408.42225**  
Source: 2013 AACS.

**R 408.42229**  
Source: 2014 AACS.

**R 408.42230**  
Source: 2001 AACS.

**R 408.42231**  
Source: 1995 AACS.

**R 408.42232**  
Source: 1997 AACS.

**R 408.42233**  
Source: 2001 AACS.

**R 408.42235**  
Source: 2006 AACS.

**R 408.42238**  
Source: 2013 AACS.

**R 408.42241**  
Source: 2014 AACS.

**R 408.42242**  
Source: 1979 AC.

**R 408.42243**  
Source: 2014 AACS.

**PART 24. TAR KETTLES**



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**R 408.42401**  
Source: 1991 AACS.

**R 408.42402**  
Source: 2013 AACS.

**R 408.42403**  
Source: 2013 AACS.

**R 408.42404**  
Source: 2013 AACS.

**R 408.42405**  
Source: 2013 AACS.

**R 408.42406**  
Source: 2013 AACS.

**R 408.42407**  
Source: 2013 AACS.

**PART 25. CONCRETE CONSTRUCTION**

**R 408.42501**  
Source: 2016 AACS.

**R 408.42502**  
Source: 2016 AACS.

**R 408.42503**  
Source: 2016 AACS.

**R 408.42516**  
Source: 2003 AACS.

**R 408.42517**  
Source: 2016 AACS.

**R 408.42518**  
Source: 2016 AACS.

**R 408.42519**  
Source: 2003 AACS.

**R 408.42520**  
Source: 2016 AACS.

**R 408.42521**  
Source: 2013 AACS.

**R 408.42522**  
Source: 2013 AACS.

**R 408.42523**  
Source: 2016 AACS.

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**R 408.42524**

Source: 2013 AACCS.

**R 408.42525**

Source: 2013 AACCS.

**R 408.42526**

Source: 2013 AACCS.

**R 408.42527**

Source: 2013 AACCS.

**R 408.42528**

Source: 2013 AACCS.

**R 408.42531**

Source: 2013 AACCS.

**R 408.42532**

Source: 2013 AACCS.

**R 408.42533**

Source: 2016 AACCS.

**R 408.42534**

Source: 2013 AACCS.

**R 408.42535**

Source: 2013 AACCS.

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**PART 26. STEEL ERECTION**

**R 408.42601 Scope, application, adoption, and availability of standards.**

Rule 2601. (1) This part sets forth requirements to protect employees from the hazards associated with steel erection activities involved in the construction, alteration, or repair of single and multistory buildings, bridges, and other structures where steel erection occurs. The requirements of this part apply to employers engaged in steel erection unless otherwise specified. This part does not apply to electrical transmission towers, communication and broadcast towers, or tanks. Examples of structures where steel erection may occur, include, but are not limited to, the following:

- (a) Single and multistory buildings.
- (b) Systems-engineered metal buildings.
- (c) Lift slab/tilt-up structures.
- (d) Energy exploration structures.
- (e) Energy production, transfer and storage structures, and facilities.
- (f) Auditoriums.
- (g) Malls.
- (h) Amphitheaters.
- (i) Stadiums.
- (j) Power plants.

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- (k) Mills.
- (l) Chemical process structures.
- (m) Bridges.
- (n) Trestles.
- (o) Overpasses.
- (p) Underpasses.
- (q) Viaducts.
- (r) Aqueducts.
- (s) Aerospace facilities and structures.
- (t) Radar and communication structures.
- (u) Light towers
- (v) Signage.
- (w) Billboards.
- (x) Scoreboards.
- (y) Conveyor systems.
- (z) Conveyor supports and related framing.
- (aa) Stairways.
- (bb) Stair towers.
- (cc) Fire escapes.
- (dd) Draft curtains.
- (ee) Fire containment structures.
- (ff) Monorails.
- (gg) Aerialways.
- (hh) Catwalks.
- (ii) Curtain walls.
- (jj) Window walls.
- (kk) Store fronts.
- (ll) Elevator fronts.
- (mm) Entrances.
- (nn) Skylights
- (oo) Metal roofs.
- (pp) Industrial structures.
- (qq) Hi-bay structures.
- (rr) Rail marine, and other transportation structures.
- (ss) Sound barriers.
- (tt) Water process and water containment structures.
- (uu) Air and cable-supported structures.
- (vv) Space frames.
- (ww) Geodesic domes.
- (xx) Canopies.
- (yy) Racks and rack support structures and frames.
- (zz) Platforms.
- (aaa) Walkways.
- (bbb) Balconies.
- (ccc) Atriums.
- (ddd) Penthouses.
- (eee) Car dumpers.
- (fff) Stacker and reclaimers.
- (ggg) Cranes and craneways.
- (hhh) Bins.
- (iii) Hoppers.
- (jjj) Ovens.
- (kkk) Furnaces.
- (lll) Stacks.
- (mmm) Amusement park structures and rides.

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(nnn) Artistic and monumental structures.

(2) Steel erection activities include all of the following:

(a) Hoisting, laying out, placing, connecting, welding, burning, guying, bracing, bolting, plumbing, and rigging structural steel, steel joists, and metal buildings.

(b) Installing metal decking, curtain walls, window walls, siding systems, miscellaneous metals, ornamental iron, and similar materials.

(c) Moving point-to-point while performing the activities specified in this subrule.

(3) All of the following activities are covered by this part when they occur during and are a part of steel erection activities:

(a) Rigging.

(b) Hoisting.

(c) Laying out.

(d) Placing.

(e) Connecting.

(f) Guying.

(g) Bracing.

(h) Dismantling.

(i) Burning.

(j) Welding.

(k) Bolting.

(l) Grinding.

(m) Sealing.

(n) Caulking.

(o) All related activities for construction, alteration, or repair of materials and assemblies such as any of the following:

(i) Structural steel.

(ii) Ferrous metals and alloys.

(iii) Nonferrous metals and alloys.

(iv) Glass.

(v) Plastics and synthetic composite materials.

(vi) Structural metal framing and related bracing and assemblies.

(vii) Anchoring devices.

(viii) Structural cabling.

(ix) Cable stays.

(x) Permanent and temporary bents and towers.

(xi) Falsework for temporary supports of permanent steel members.

(xii) Stone and other non-precast concrete architectural materials mounted on steel frames.

(xiii) Safety systems for steel erection.

(xiv) Steel and metal joists.

(xv) Metal decking and raceway systems and accessories.

(xvi) Metal roofing and accessories.

(xvii) Metal siding.

(xviii) Bridge flooring.

(xix) Cold formed steel framing.

(xx) Elevator beams.

(xxi) Grillage.

(xxii) Shelf racks.

(xxiii) Multipurpose supports.

(xxiv) Crane rails and accessories.

(xxv) Miscellaneous, architectural, and ornamental metals and metal work.

(xxvi) Ladders.

(xxvii) Railings.

(xxviii) Handrails.

(xxix) Fences and gates.

(xxx) Gratings.

(xxxi) Trench covers.

(xxxii) Floor plates.

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- (xxxiii) Castings.
  - (xxxiv) Sheet metal fabrications.
  - (xxxv) Metal panels and panel wall systems.
  - (xxxvi) Louvers.
  - (xxxvii) Column covers.
  - (xxxviii) Enclosures and pockets.
  - (xxxix) Stairs.
  - (xl) Perforated metals.
  - (xli) Ornamental iron work.
  - (xlii) Expansion control, including bridge expansion joint assemblies.
  - (xlili) Slide bearings.
  - (xliv) Hydraulic structures.
  - (xlv) Fascias.
  - (xlvi) Soffit panels.
  - (xlvii) Penthouse enclosures.
  - (xlviii) Skylights.
  - (xlix) Joint fillers.
  - (l) Gaskets.
  - (li) Sealants and seals.
  - (lii) Doors.
  - (liii) Windows.
  - (liv) Hardware.
  - (lv) Detention and security equipment and doors, windows, and hardware.
  - (lvi) Conveying systems.
  - (lvii) Building specialties.
  - (lviii) Building equipment.
  - (lix) Machinery and plant equipment, furnishings, and special construction.
- (4) The duties of controlling contractors under this part include, but are not limited to, the duties specified in R 408.42608(1) and (3), R 408.42626(6), R 408.42644(2), and R 408.42651(4). (5) The federal Occupational Safety and Health Administration (OSHA) regulations, 29 CFR 1926, Subpart R, “Steel erection,” as amended February 18, 2020, are adopted by reference in these rules, except for the following:
- (a) 29 CFR 1926.753 is replaced with R 408.42609 and R 408.42610.
  - (b) 29 CFR 1926.761 is replaced with R 408.42655.
  - (6) A reference to 29 CFR 1926.502 means Construction Safety Standard Part 45. “Fall Protection.”
  - (7) The adopted federal regulations have the same force and effect as a rule promulgated under the Michigan occupational safety and health act, 1974 PA 154, MCL 408.1001 to 408.1094.
  - (8) The OSHA regulations adopted in these rules are available from the United States Department of Labor, Occupational Safety and Health Administration, 200 Constitution Avenue, NW, Washington, DC 20210, or via the internet at [www.OSHA.gov](http://www.OSHA.gov), at no charge, as of the time of adoption of these rules.
  - (9) The regulations adopted in these rules are available for inspection at the Department of Labor and Economic Opportunity, MIOSHA, Standards and FOIA Section, 530 West Allegan Street, P.O. Box 30643, Lansing, Michigan, 48909-8143.
  - (10) The regulations adopted by reference in these rules may be obtained from the publisher or may be obtained from the Department of Labor and Economic Opportunity, MIOSHA, Standards and FOIA Section, 530 West Allegan Street, P.O. Box 30643, Lansing, Michigan, 48909-8143.
  - (11) The following Michigan occupational safety and health administration (MIOSHA) standards are referenced in these rules. Up to 5 copies of the following Michigan occupational safety and health administrative standards that are referenced in this standard may be obtained at no charge from the Department of Labor and Economic Opportunity, FOIA and Standards Section, 530 West Allegan Street, P.O. Box 30643, Lansing, Michigan 48909-8143, or via the internet at: [www.michigan.gov/mioshastandards](http://www.michigan.gov/mioshastandards), and for quantities greater than 5, the cost, at the time of adoption of these rules, is 4 cents per page:
- (a) Construction Safety and Health Standard Part 10. “Cranes and Derricks,” R 408.41001 to R 408.41099a.
  - (b) Construction Safety Standards Part 28. “Personnel Hoisting in Steel Erection,” R 408.42801 to R 408.42809.
- History: 1954 ACS 78, Eff. Mar. 2, 1974; 1954 ACS 88, Eff. Sept. 16, 1976; 1954 ACS 100, Eff. Sept. 16, 1976; 1979 AC; 1985 AACS; 2002 AACS; 2010 AACS; 2023 MR 24, Eff. Jan. 3, 2024.

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**R 408.42602 Rescinded.**

History: 2002 AAC; 2007 AAC; 2013 AAC; 2023 MR 24, Eff. Jan. 3, 2024.

**R 408.42604 Rescinded.**

History: 2002 AAC; 2023 MR 24, Eff. Jan. 3, 2024.

**R 408.42605 Rescinded.**

History: 2002 AAC; 2007 AAC; 2014 AAC; 2023 MR 24, Eff. Jan. 3, 2024.

**R 408.42606 Rescinded.**

History: 1954 ACS 100, Eff. Sept. 5, 1979; 1979 AC; 1985 AAC; 2002 AAC; 2023 MR 24, Eff. Jan. 3, 2024.

**R 408.42608 Rescinded.**

History: 2002 AAC; 2007 AAC; 2014 AAC; 2023 MR 24, Eff. Jan. 3, 2024.

**R 408.42609. Hoisting and rigging.**

Rule 2609. (1) All the provisions of Construction Safety and Health Standard Part 10. "Cranes and Derricks," as referenced in R 408.42601 apply to hoisting and rigging.

(2) The headache ball, hook or load shall not be used to transport personnel except as provided in subrule (3) of this rule.

(3) Cranes or derricks may be used to hoist employees when work under this rule is being conducted, provided either of the following provisions is met:

(a) All of the requirements of the Construction Safety and Health Standard Part 10. "Cranes and Derricks," R 408.41001, except for R 408.41001(1), as referenced in R 408.42601.

(b) All of the requirements of the Construction Safety Standards Part 28. "Personnel Hoisting in Steel Erection," as referenced in R 408.42601.

(4) Safety latches on hooks shall not be deactivated or made inoperable, except in either of the following situations:

(a) When a qualified rigger has determined that the hoisting and placing of purlins and single joists can be performed more safely by doing so.

(b) When equivalent protection is provided in a site-specific erection plan.

(5) Routes for suspended loads shall be preplanned to ensure that no employee is required to work directly below a suspended load, except for the following employees:

(a) Employees engaged in the initial connection of the steel.

(b) Employees necessary for the hooking or unhooking of the load.

(6) When working under suspended loads, all of the following criteria shall be met:

(a) Materials being hoisted shall be rigged to prevent unintentional displacement.

(b) Hooks with self-closing safety latches or their equivalent shall be used to prevent components from slipping out of the hook.

(c) All loads shall be rigged by a qualified rigger.

History: 1985 AAC; 2002 AAC; 2007 AAC; 2014 AAC; 2023 MR 24, Eff. Jan. 3, 2024.

**R 408.42610**

**Source:** 2002 AAC.

**R 408.42611**

**Source:** 1997 AAC.

**R 408.42612**

**Source:** 1997 AAC.

**R 408.42613**

**Source:** 1997 AAC.

**R 408.42614 Rescinded.**

History: 1985 AAC; 2002 AAC; 2010 AAC; 2023 MR 24, Eff. Jan. 3, 2024.

**R 408.42615**

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**Source:** 2002 AACS.

**R 408.42616 Rescinded.**

History: 2002 AACS; 2007 AACS; 2023 MR 24, Eff. Jan. 3, 2024.

**R 408.42617**

**Source:** 2002 AACS.

**R 408.42618 Rescinded.**

History: 1985 AACS; 2002 AACS; 2023 MR 24, Eff. Jan. 3, 2024.

**R 408.42620 Rescinded.**

History: 2002 AACS; 2023 MR 24, Eff. Jan. 3, 2024.

**R 408.42621**

**Source:** 2002 AACS.

**R 408.42622 Rescinded.**

History: 2002 AACS; 2023 MR 24, Eff. Jan. 3, 2024.

**R 408.42623**

**Source:** 2002 AACS.

**R 408.42624**

**Source:** 2007 AACS.

**R 408.42625**

**Source:** 2007 AACS.

**R 408.42626 Rescinded.**

History: 2002 AACS; 2014 AACS; 2023 MR 24, Eff. Jan. 3, 2024.

**R 408.42628 Rescinded.**

History: 2002 AACS; 2007 AACS; 2023 MR 24, Eff. Jan. 3, 2024.

**R 408.42629 Rescinded.**

History: 2002 AACS; 2007 AACS; 2014 AACS; 2023 MR 24, Eff. Jan. 3, 2024.

**R 408.42630**

**Source:** 2002 AACS.

**R 408.42632**

**Source:** 2002 AACS.

**R 408.42634 Rescinded.**

History: 2002 AACS; 2007 AACS; 2023 MR 24, Eff. Jan. 3, 2024.

**R 408.42636 Rescinded.**

History: 2002 AACS; 2007 AACS; 2023 MR 24, Eff. Jan. 3, 2024.

**R 408.42638 Rescinded.**

History: 2002 AACS; 2023 MR 24, Eff. Jan. 3, 2024.

**R 408.42640 Rescinded.**

History: 1985 AACS; 2002 AACS; 2023 MR 24, Eff. Jan. 3, 2024.

**R 408.42642**

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**Source:** 2002 AACS.

**R 408.42643 Rescinded.**

History: 2002 AACS; 2014 AACS; 2023 MR 24, Eff. Jan. 3, 2024.

**R 408.42644 Rescinded.**

History: 2002 AACS; 2013 AACS; 2023 MR 24, Eff. Jan. 3, 2024.

**R 408.42645 Rescinded.**

History: 2002 AACS; 2023 MR 24, Eff. Jan. 3, 2024.

**R 408.42646 Rescinded.**

History: 2002 AACS; 2023 MR 24, Eff. Jan. 3, 2024.

**R 408.42648 Rescinded.**

History: 2002 AACS; 2007 AACS; 2023 MR 24, Eff. Jan. 3, 2024.

**R 408.42650**

**Source:** 2002 AACS.

**R 408.42651 Rescinded.**

History: 2002 AACS; 2007 AACS; 2014 AACS; 2023 MR 24, Eff. Jan. 3, 2024.

**R 408.42653 Rescinded.**

History: 2002 AACS; 2023 MR 24, Eff. Jan. 3, 2024.

**R 408.42654**

**Source:** 2002 AACS.

**R 408.42655 Special training.**

Rule 2655. (1) An employer shall ensure that each employee who performs multiple lift rigging has been provided training in both of the following areas:

(a) The nature of the hazards associated with multiple lifts.

(b) The proper procedures and equipment to perform multiple lifts required by R 408.42610.

(2) An employer shall ensure that each connector has been provided training in all of the following areas:

(a) The nature of the hazards associated with connecting.

(b) The establishment, access, proper connecting techniques, and work practices required by 29 CFR 1926.756(c) and 29 CFR 1926.760(b).

(c) Specific training on personnel hoisting as prescribed in Construction Safety Standards Part 28. "Personnel Hoisting in Steel Erection," as referenced in R 408.42601.

(3) Where CDZs are being used, an employer shall assure that each employee has been provided training in both of the following areas:

(a) The nature of the hazards associated with work within a controlled decking zone.

(b) The establishment, access, proper installation techniques, and work practices required by 29 CFR 1926.760(c) and 29 CFR 1926.754(e).

History: 2002 AACS; 2007 AACS; 2014 AACS; 2023 MR 24, Eff. Jan. 3, 2024.

**R 408.42656**

**Source:** 2002 AACS.

**PART 27. BLASTING AND USE OF EXPLOSIVES**

**R 408.42701**

**Source:** 2015 AACS.

**R 408.42705**

**Source:** 2015 AACS.



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**R 408.42710**  
**Source:** 2015 AACS.

**R 408.42724**  
**Source:** 2015 AACS.

**R 408.42725**  
**Source:** 2015 AACS.

**R 408.42726**  
**Source:** 2015 AACS.

**R 408.42727**  
**Source:** 2015 AACS.

**R 408.42728**  
**Source:** 2015 AACS.

**R 408.42731**  
**Source:** 2015 AACS.

**R 408.42732**  
**Source:** 2015 AACS.

**R 408.42733**  
**Source:** 2015 AACS.

**R 408.42734**  
**Source:** 2015 AACS.

**R 408.42735**  
**Source:** 2015 AACS.

**R 408.42737**  
**Source:** 2015 AACS.

**R 408.42741**  
**Source:** 2015 AACS.

**R 408.42742**  
**Source:** 2015 AACS.

**R 408.42743**  
**Source:** 2015 AACS.

**R 408.42744**  
**Source:** 2015 AACS.

**R 408.42751**  
**Source:** 2015 AACS.

**R 408.42752**  
**Source:** 2015 AACS.

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**R 408.42753**  
**Source:** 2015 AACS.

**R 408.42754**  
**Source:** 2015 AACS.

**R 408.42755**  
**Source:** 2015 AACS.

**R 408.42756**  
**Source:** 2015 AACS.

**R 408.42757**  
**Source:** 2015 AACS.

**R 408.42758**  
**Source:** 2015 AACS.

**R 408.42759**  
**Source:** 2015 AACS.

**R 408.42761**  
**Source:** 2015 AACS.

**R 408.42762**  
**Source:** 2015 AACS.

**R 408.42763**  
**Source:** 2015 AACS.

**R 408.42799**  
**Source:** 2015 AACS.

**PART 28 PERSONNEL HOISTING IN STEEL ERECTION**

**R 408.42801**  
**Source:** 2007 AACS.

**R 408.42804**  
**Source:** 2007 AACS.

**R 408.42806**  
**Source:** 2007 AACS.

**R 408.42809**  
**Source:** 2007 AACS.

**PART 29. COMMUNICATION TOWERS**

**R 408.42901**  
**Source:** 2009 AACS.

**R 408.42904**  
**Source:** 2009 AACS.

**R 408.42907**  
**Source:** 2009 AACS.

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**R 408.42910**  
Source: 2009 AACS.

**R 408.42913**  
Source: 2009 AACS.

**R 408.42916**  
Source: 2009 AACS.

**R 408.42919**  
Source: 2009 AACS.

**R 408.42922**  
Source: 2009 AACS.

**R 408.42925**  
Source: 2009 AACS.

**R 408.42928**  
Source: 2009 AACS.

**R 408.42931**  
Source: 2009 AACS.

**R 408.42934**  
Source: 2009 AACS.

**R 408.42937**  
Source: 2009 AACS.

**R 408.42940**  
Source: 2009 AACS.

**R 408.42943**  
Source: 2009 AACS.

**DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS**

**DIRECTOR'S OFFICE - MIOSHA**

**CONSTRUCTION SAFETY AND HEALTH**

**PART 30. TELECOMMUNICATIONS FOR CONSTRUCTION**

**R 408.43001**  
Source: 2019 AACS.

**R 408.43002**  
Source: 2017 AACS.

**R 408.43003**  
Source: 2013 AACS.

**R 408.43004**  
Source: 2013 AACS.

**R 408.43005**

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**Source:** 2017 AACS.

**R 408.43006**

**Source:** 2019 AACS.

**PART 31. DIVING OPERATIONS**

**R 408.43101**

**Source:** 2013 AACS.

**R 408.43103**

**Source:** 2013 AACS.

**R 408.43104**

**Source:** 2013 AACS.

**R 408.43105**

**Source:** 2013 AACS.

**R 408.43106**

**Source:** 2013 AACS.

**R 408.43107**

**Source:** 2013 AACS.

**R 408.43109**

**Source:** 2013 AACS.

**R 408.43111**

**Source:** 2013 AACS.

**R 408.43112**

**Source:** 2013 AACS.

**R 408.43113**

**Source:** 2013 AACS.

**R 408.43114**

**Source:** 2013 AACS.

**R 408.43121**

**Source:** 2013 AACS.

**R 408.43122**

**Source:** 2013 AACS.

**R 408.43123**

**Source:** 2013 AACS.

**R 408.43124**

**Source:** 2013 AACS.

**R 408.43125**

**Source:** 2013 AACS.

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**R 408.43126**  
Source: 2013 AACCS.

**R 408.43127**  
Source: 2013 AACCS.

**R 408.43131**  
Source: 2013 AACCS.

**R 408.43132**  
Source: 2013 AACCS.

**R 408.43133**  
Source: 2013 AACCS.

**R 408.43134**  
Source: 2013 AACCS.

**R 408.43141**  
Source: 2013 AACCS.

**R 408.43142**  
Source: 2013 AACCS.

**R 408.43145**  
Source: 2013 AACCS.

**R 408.43146**  
Source: 2013 AACCS.

**R 408.43151**  
Source: 2013 AACCS.

**R 408.43152**  
Source: 2013 AACCS.

**R 408.43153**  
Source: 2013 AACCS.

**R 408.43154**  
Source: 2013 AACCS.

**R 408.43155**  
Source: 2013 AACCS.

**R 408.43156**  
Source: 2013 AACCS.

**R 408.43157**  
Source: 2013 AACCS.

**R 408.43158**  
Source: 2013 AACCS.

**R 408.43161**

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**Source:** 2013 AACS.

**R 408.43162**

**Source:** 2013 AACS.

**PART 32. AERIAL WORK PLATFORMS**

**R 408.43201**

**Source:** 2008 AACS.

**R 408.43202**

**Source:** 2008 AACS.

**R 408.43203**

**Source:** 2013 AACS.

**R 408.43204**

**Source:** 2008 AACS.

**R 408.43204a**

**Source:** 2013 AACS.

**R 408.43205**

**Source:** 2013 AACS.

**R 408.43206**

**Source:** 2013 AACS.

**R 408.43207**

**Source:** 2013 AACS.

**R 408.43208**

**Source:** 2013 AACS.

**R 408.43209**

**Source:** 2008 AACS.

**R 408.43210**

**Source:** 2008 AACS.

**R 408.43212**

**Source:** 2013 AACS.

**R 408.43214**

**Source:** 2013 AACS.

**R 408.43216**

**Source:** 2013 AACS.

**R 408.43220**

**Source:** 2008 AACS.

**PART 35. CONFINED SPACE IN CONSTRUCTION**

**R 408.43501**

**Source:** 2015 AACS.

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**R 408.43505**  
Source: 2015 AACS.

**R 408.43510**  
Source: 2015 AACS.

**PART 42. HAZARD COMMUNICATION**

**R 408.44201**  
Source: 2014 AACS.

**R 408.44202**  
Source: 2014 AACS.

**R 408.44203**  
Source: 2014 AACS.

**R 408.44204**  
Source: 2014 AACS.

**PART 45. FALL PROTECTION**

**R 408.44501**  
Source: 2015 AACS.

**R 408.44502**  
Source: 2015 AACS.

**PART 51. AGRICULTURAL TRACTORS**

**R 408.45101**  
Source: 1997 AACS.

**PART 53. FARM FIELD EQUIPMENT**

**R 408.45301**  
Source: 1979 AC.

**DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS**

**DIRECTOR'S OFFICE**

**SAFETY STANDARDS FOR AGRICULTURE**  
**PART 55 AGRICULTURAL OPERATIONS**

**R 408.45501**  
Source: 2014 AACS.

**R 408.45502**  
Source: 2014 AACS.

**DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS**

**DIRECTOR'S OFFICE**

**CONSTRUCTION SAFETY STANDARDS**

**PART 91. PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS CHEMICALS**

**R 408.49101**  
Source: 2016 AACS.

**R 408.49102**  
Source: 2016 AACS.

**R 408.49103**  
Source: 2016 AACS.

**DEPARTMENT OF EDUCATION**  
**VOCATIONAL-TECHNICAL EDUCATION SERVICE**  
**STANDARDS FOR ISSUANCE OF WORK PERMITS**

**R 409.1**  
Source: 1980 AACS.

**R 409.2**  
Source: 2015 AACS.

**R 409.3**  
Source: 2015 AACS.

**R 409.4**  
Source: 2015 AACS.

**R 409.5**  
Source: 2015 AACS.

**R 409.6**  
Source: 1980 AACS.

**DEPARTMENT OF CONSUMER AND INDUSTRY SERVICES**  
**DIRECTOR'S OFFICE**  
**WORKER'S COMPENSATION APPELLATE COMMISSION**  
**ADMINISTRATIVE APPELLATE PROCEDURE**

**R 418.1**  
Source: 2015 AACS.

**R 418.2**  
Source: 2015 AACS.

**R 418.3**  
Source: 2015 AACS.

**R 418.4**  
Source: 2015 AACS.

**R 418.5**  
Source: 2015 AACS.



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**R 418.6**  
Source: 2015 AACS.

**R 418.7**  
Source: 2015 AACS.

**R 418.8**  
Source: 2015 AACS.

**WORKER’S COMPENSATION BOARD OF MAGISTRATES**

**R 418.51**  
Source: 2015 AACS.

**R 418.52**  
Source: 2015 AACS.

**R 418.53**  
Source: 2015 AACS.

**R 418.54**  
Source: 2015 AACS.

**R 418.55**  
Source: 2015 AACS.

**R 418.56**  
Source: 2015 AACS.

**R 418.57**  
Source: 2015 AACS.

**R 418.58**  
Source: 2015 AACS.

**DEPARTMENT OF LABOR AND ECONOMIC OPPORTUNITY**

**WORKERS' DISABILITY COMPENSATION AGENCY**

**WORKERS’ DISABILITY COMPENSATION APPEALS COMMISSION**

**R 418.61**  
Source: 2021 AACS.

**R 418.62**  
Source: 2021 AACS.

**R 418.63**  
Source: 2021 AACS.

**R 418.64**  
Source: 2021 AACS.

**R 418.65**  
Source: 2021 AACS.

**R 418.66**

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**Source:** 2021 AACS.

**R 418.67**

**Source:** 2021 AACS.

**R 418.68**

**Source:** 2021 AACS.

**R 418.69**

**Source:** 2021 AACS.

**R 418.70**

**Source:** 2021 AACS.

**DEPARTMENT OF LABOR AND ECONOMIC OPPORTUNITY**

**WORKERS' DISABILITY COMPENSATION AGENCY**

**WORKERS' COMPENSATION BOARD OF MAGISTRATES**

**PART 1. GENERAL**

**R 418.81**

**Source:** 2021 AACS.

**R 418.82**

**Source:** 2021 AACS.

**R 418.83**

**Source:** 2021 AACS.

**R 418.84**

**Source:** 2021 AACS.

**R 418.85 A**

**Source:** 2021 AACS.

**R 418.86**

**Source:** 2021 AACS.

**R 418.87**

**Source:** 2021 AACS.

**R 418.88**

**Source:** 2021 AACS.

**R 418.89**

**Source:** 2021 AACS.

**R 418.90**

**Source:** 2021 AACS.

**R 418.91**

**Source:** 2021 AACS.

**R 418.92**

**Source:** 2021 AACS.

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**R 418.93**  
Source: 2021 AACS.

**PART 2. HEARINGS**

**R 418.94**  
Source: 2021 AACS.

**R 418.95**  
Source: 2021 AACS.

**R 418.96**  
Source: 2021 AACS.

**R 418.97**  
Source: 2021 AACS.

**R 418.98**  
Source: 2021 AACS.

**R 418.99**  
Source: 2021 AACS.

**BUREAU OF WORKER'S DISABILITY COMPENSATION**  
**WORKER'S COMPENSATION HEALTH CARE SERVICES**

**PART 1. GENERAL PROVISIONS**

**R 418.101**  
Source: 1998-2000 AACS.

**R 418.102**  
Source: 1998-2000 AACS.

**R 418.103**  
Source: 1998-2000 AACS.

**R 418.104**  
Source: 1998-2000 AACS.

**R 418.105**  
Source: 1998-2000 AACS.

**R 418.106**  
Source: 1998-2000 AACS.

**R 418.107**  
Source: 1998-2000 AACS.

**R 418.108**  
Source: 1998-2000 AACS.

**R 418.109**  
Source: 1998-2000 AACS.

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**R 418.110**  
**Source:** 1998-2000 AACs.

**R 418.111**  
**Source:** 1998-2000 AACs.

**R 418.112**  
**Source:** 1998-2000 AACs.

**R 418.113**  
**Source:** 1998-2000 AACs.

**R 418.114**  
**Source:** 1998-2000 AACs.

**R 418.115**  
**Source:** 1998-2000 AACs.

**R 418.116**  
**Source:** 1998-2000 AACs.

**R 418.117**  
**Source:** 1998-2000 AACs.

**R 418.118**  
**Source:** 1998-2000 AACs.

**R 418.119**  
**Source:** 1998-2000 AACs.

**R 418.120**  
**Source:** 1998-2000 AACs.

**R 418.121**  
**Source:** 1998-2000 AACs.

**R 418.122**  
**Source:** 1998-2000 AACs.

**R 418.123**  
**Source:** 1998-2000 AACs.

**R 418.124**  
**Source:** 1998-2000 AACs.

**R 418.125**  
**Source:** 1998-2000 AACs.

**R 418.126**  
**Source:** 1998-2000 AACs.

**R 418.127**  
**Source:** 1998-2000 AACs.

**R 418.128**  
**Source:** 1998-2000 AACs.

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**R 418.129**  
Source: 1998-2000 AACS.

**R 418.130**  
Source: 1998-2000 AACS.

**R 418.131**  
Source: 1998-2000 AACS.

**R 418.132**  
Source: 1998-2000 AACS.

**PART 2. MEDICINE AND EVALUATION AND MANAGEMENT SERVICES**

**R 418.201**  
Source: 1998-2000 AACS.

**R 418.202**  
Source: 1998-2000 AACS.

**R 418.203**  
Source: 1998-2000 AACS.

**R 418.204**  
Source: 1998-2000 AACS.

**R 418.205**  
Source: 1998-2000 AACS.

**R 418.206**  
Source: 1998-2000 AACS.

**R 418.207**  
Source: 1998-2000 AACS.

**R 418.208**  
Source: 1998-2000 AACS.

**R 418.209**  
Source: 1998-2000 AACS.

**R 418.210**  
Source: 1998-2000 AACS.

**R 418.211**  
Source: 1998-2000 AACS.

**R 418.212**  
Source: 1998-2000 AACS.

**R 418.213**  
Source: 1998-2000 AACS.

**R 418.214**  
Source: 1998-2000 AACS.

**R 418.215**  
Source: 1998-2000 AACS.

**R 418.216**  
**Source:** 1998-2000 AACS.

### **PART 3. ANESTHESIA**

**R 418.301**  
**Source:** 1998-2000 AACS.

**R 418.302**  
**Source:** 1998-2000 AACS.

**R 418.303**  
**Source:** 1998-2000 AACS.

**R 418.304**  
**Source:** 1998-2000 AACS.

**R 418.305**  
**Source:** 1998-2000 AACS.

**R 418.306**  
**Source:** 1998-2000 AACS.

**R 418.307**  
**Source:** 1998-2000 AACS.

**R 418.308**  
**Source:** 1998-2000 AACS.

**R 418.309**  
**Source:** 1998-2000 AACS.

### **PART 4. SURGERY**

**R 418.401**  
**Source:** 1998-2000 AACS.

**R 418.402**  
**Source:** 1998-2000 AACS.

**R 418.403**  
**Source:** 1998-2000 AACS.

**R 418.404**  
**Source:** 1998-2000 AACS.

**R 418.405**  
**Source:** 1998-2000 AACS.

**R 418.406**  
**Source:** 1998-2000 AACS.

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**PART 5. RADIOLOGY, RADIATION THERAPY, AND NUCLEAR MEDICINE**

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**PART 6. PATHOLOGY AND LABORATORY**

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**PART 7. DENTAL**

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**PART 8. AMBULANCE SERVICE**

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**PART 9. HOME HEALTH AGENCY**

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**PART 10. PHARMACY AND MEDICAL SUPPLY SERVICE**

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**R 418.1004**  
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**R 418.1007**  
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**PART 11. OCCUPATIONAL THERAPY AND PHYSICAL THERAPY**

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**PART 12. ORTHOTIC AND PROSTHETIC EQUIPMENT**

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**PART 13. HEARING SERVICE**

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**PART 14. VISION AND PROSTHETIC OPTICAL SERVICE**

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**PART 16. FACILITY SERVICE**

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