**GI Part 58 Aerial Work Platforms**
**Compared With**
**29 C.F.R. 1910.67 Vehicle-Mounted Elevator and Rotating Work Platforms**
**As of November 2013**

**Summary:** The significant differences between GI Part 58 Aerial Work Platforms and 29 C.F.R. 1910.67 Vehicle-mounted elevator and rotating work platforms are in:

- Employer responsibility.
- Employee responsibility.
- Training; permits.
- Preoperational procedures; platform inspections.
- Construction, modification, and remounting.
- Controls.
- Inspection; maintenance; testing.
- Electrical hazards.
- Vehicles; traffic control.
- Fall Protection.
- Operating procedures.
- Figures.

The comparisons show only those provisions where MIOSHA rules are different than OSHA or where MIOSHA rules are not included in 29 C.F.R.

****means there is a comparable OSHA rule to this paragraph

| MIOSHA | OSHA |
|---|---|
| **R 408.15815. Training; permits.**<br>**Rule 5815.** (1) An employer shall provide each employee who will operate the aerial work platform with instruction and training regarding the equipment before a permit is issued or reissued. Such instruction and training shall include the following:<br>(a) Instruction by a qualified person in the intended purpose and function of each of the controls.<br>(b) Training by a qualified person or reading and understanding the manufacturer's or owner's operating instructions and safety rules.<br>(c) Understanding by reading or by having a qualified person explain, all decals, warnings, and instructions displayed on the aerial work platform.<br>(d) Reading and understanding the provisions of this subrule and subrules (1) to (9) of this rule or be trained by a qualified person on their content.<br>(2) An employer shall provide the operator of an aerial work platform with an aerial work platform permit.<br>(3) The requirements of subrule (1)(a), (b), (c), and (d) of this rule shall be met before an employee is issued a permit. | **No comparable OSHA provision.** |

| MIOSHA | OSHA |
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| **R 408.15815.** (4) A permit shall be carried by the operator or be available at the job site/work place and shall be displayed upon request by a department of labor and economic growth representative.<br>(5) A permit shall indicate the type of aerial work platforms an operator has been trained on and is qualified to operate.<br>(6) A permit to operate an aerial work platform is valid only when performing work for the employer who issued the permit. A permit shall be issued for a period of not more than 3 years.<br>(7) A permit shall contain all of the following information (see sample permit):<br>(a) Firm name.<br>(b) Operator's name.<br>(c) Name of issuing authority. (Authorized by).<br>(d) The following types of aerial work platforms the operator is authorized to operate:<br>(i) Vehicle-mounted elevating work platform such as:<br>(1) Extensible boom aerial devices.<br>(2) Aerial ladders.<br>(3) Articulating boom aerial devices.<br>(4) Vertical towers.<br>(ii) Manually propelled elevating work platforms.<br>(iii) Boom-supported elevating work platforms.<br>(iv) Self-propelled elevating work platforms.<br>(e) Date issued.<br>(f) Expiration date.<br>(8) A sample permit is set forth as follows: | |
| **SAMPLE PERMIT** | **No comparable OSHA provisions** |

AERIAL WORK PLATFORM PERMIT

(Firm Name)

_____

(Employee Name)

Type of aerial work platform to operate:

| Date Issued | Type | Authorized by | Expiration Date |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |

(9) The manufacturer's operating instructions and safety rules shall be provided and maintained in a legible manner on each unit by the employer.

| MIOSHA | OSHA |
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| **R 408.15817. Preoperational procedures; platform inspections.**<br>**Rule 5817.** (1) The employer shall ensure before the commencement of operations near power lines and when the clearances cannot be maintained as specified in Tables 1-3, that the owner, owner representative, or utility are notified with all pertinent information about the job.<br>(2) Any overhead wire shall be considered to be an energized line until the owner of the line, his or her authorized representative, or a utility representative assures either of the following:<br>(a) The line is de-energized and has been visibly grounded.<br>(b) The line is insulated for the system voltages and the task will not compromise the insulation of the conductor and/or cause an electrical hazard. | **No comparable OSHA provision.** |
| **CONSTRUCTION, TESTING, AND USE PROVISIONS** | |
| **R 408.15821. Construction, modification, and remounting.**<br>**Rule 5821**. (1) Aerial work platforms modified, remounted, designed, constructed, and tested after December 28, 1974, but before the effective date of this rule, shall be in compliance with the requirements of the following applicable American National Standards Institute Standards:<br>(a) ANSI standard A92.2, “Standard for Vehicle-Mounted Elevating and Rotating Work Platforms,” 1969 edition.<br>(b) ANSI standard A92.3, "Manually Propelled Elevating Work Platforms", 1990 edition.<br>(c) ANSI standard A92.5, "Boom-Supported Elevating Work Platforms", 1992 edition.<br>(d) ANSI standard A92.6, "Self-Propelled Elevating Work Platforms", 1999 edition.<br>These standards are adopted by reference in R 408.15810.<br>(2) A permanent label or tag shall be affixed to an aerial work platform modified, remounted, designed, constructed, or tested after March 28, 1975, but before the effective date of these rules, certifying compliance with subrule (1) of this rule.<br>(3) Aerial work platforms modified, remounted, designed, constructed, and tested, after January 1, 2007, shall be in compliance with the requirements of the following applicable American National Standards Institute Standards:<br>(a) ANSI standard A92.2, "Vehicle-Mounted Elevating and Rotating Aerial Devices", 2002 edition.<br>(b) ANSI standard A92.3, "Manually Propelled Elevating Aerial Platforms", 2006 edition.<br>(c) ANSI standard A92.5, "Boom-Supported Elevating Work Platforms", 2006 edition.<br>(d) ANSI standard A92.6, "Self-Propelled Elevating Work Platforms", 1999 edition.<br>These standards are adopted by reference in R 408.15810. | **No comparable OSHA provision.** |

| MIOSHA | OSHA |
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| **R 408.15821.** (4) An aerial work platform shall bear a permanent plate stating the designed rating capacity.<br>(5) An aerial work platform shall be mounted on a vehicle capable of sustaining, or reinforced to sustain, the imposed load. The vehicle shall be a stable support for the aerial device.<br>(6) The lifting and outrigger system of an aerial work platform shall be equipped with a means, such as but not limited to, a pilot operated check valve to ensure that the system will not permit the work platform to drop in a free fall in event of a power or hydraulic line failure.<br><br>(7)**** | **No comparable OSHA provisions**<br><br>Equivalent |
| **R 408.15825 Controls.**<br>**Rule 5825**. (1) All of the following information shall be clearly marked in a permanent manner on each aerial work platform:<br>(a) Special workings, cautions, or restrictions necessary for operation.<br>(b) Rated work load.<br>(c) A clear statement if the aerial work platform is electrically insulated.<br>(2) Directional controls shall be in compliance with all of the following provisions:<br>(a) Be of the type that will automatically return to the off or neutral position when released.<br>(b) Be protected against inadvertent operation.<br>(c) Be clearly marked as to their intended function.<br>(3) An overriding control shall be provided in the platform which must be continuously activated for platform directional controls to be operational and which automatically returns to the off position when released.<br><br>(4) to (7)****<br><br>(8) Attachment points shall be provided for fall protection devices for personnel who occupy the platform on aerial work platforms described in the provisions of R 408.15802 (a) and (c). (See figures 1 and 3). | **No comparable OSHA provision.**<br><br>Equivalent<br><br>**No comparable OSHA provisions** |
| **R 408.15831. Inspection, maintenance; testing.**<br>**Rule 5831**. If the aerial work platform is rated and used as an insulated aerial device, an employer shall test the electrical insulating components for compliance with the rating of the aerial work platform in accordance with ANSI standard A92.2 2001 edition "Vehicle-Mounted Elevating and Rotating Aerial Devices," which is adopted by reference in R 408.15810. Testing shall comply with all of the following provisions:<br>(a) The test shall be performed not less than annually.<br>(b) Written, dated, and signed test reports shall be made available by the employer for examination by a department representative.<br>(c)**** | **No comparable OSHA provisions**<br><br>Equivalent |

| MIOSHA | OSHA |
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| **R 408.15832. Electrical hazards.**<br>**Rule 5832.** (1) The employer shall ensure that an aerial work platform shall be operated so that the distances from energized power lines and equipment prescribed in Table 1 are maintained, except for the following:<br>(a) As prescribed in subrule (2) of this rule addressing tree trimming.<br>(b) As prescribed in subrule (3) of this rule addressing telecommunications.<br>(c) Where insulating barriers are not a part of or an attachment to the aerial device that has been erected to prevent physical contact with the lines.<br>(2) A qualified lineman or a qualified line clearance tree trimmer, as prescribed in General Industry Safety Standard Part 53 “Tree Trimming and Removal” R 408.15301 to R 408.15363, shall maintain distances as prescribed in Table 2 when performing work from an aerial work platform on or near an exposed power line unless any of the following conditions exist:<br>(a) The employee is insulated or guarded from the energized part by gloves or gloves and sleeves, as provided for and prescribed in General Industry Safety Standard Part 33 “Personal Protective Equipment,” R 408.13301 to R 408.13398.<br>(b) The employee is insulated, isolated, or guarded from any other conductive part.<br>(c) The energized part is insulated from the employee.<br>(3) A qualified telecommunications employee shall maintain the distances prescribed in Table 3 when working from an aerial lift, unless the employee is insulated, isolated, or guarded from any other conductive part or the energized part is insulated from the employee.<br>(4) Employees shall use insulated bucket, gloves, and sleeves that are rated at more than the voltage to be worked on or that with which they might come into contact, to comply with subrules (2) and (3) of this rule. | **No comparable OSHA provision.** |

| MIOSHA | OSHA |
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| **R 408.15832** (5) The clearances, as prescribed in Tables 1-3, do not apply when the owner of the line or his or her authorized representative, or a utility representative assures that the conductor is insulated for the system voltages and the task will not compromise the insulation of the conductor and/or cause an electrical hazard.<br>(6) Tables 1, 2, and 3 read as follows: | **No comparable OSHA provisions** |

**Table 1**

**Minimum Clearance Distances for Equipment**

| ***Voltage*** | **Clearance With Boom Raised** | **Clearance Boom Lowered and No Load in Transit** |
|---|---|---|
| To 50 kV | 10 feet | 4 feet |
| Over 50 kV | 10 feet + .4 inch per each 1 kV over 50 kV | 10 feet |
| 50 to 345 kV | -- | 10 feet |
| 346 to 750 kV | -- | 15 feet |

| MIOSHA | OSHA |
|---|---|

**Table 2**

**Minimum Working Distances for Qualified Line-Clearance Tree Trimmers and Qualified Linemen**

| Voltage Range Phase to Phase (kilovolts) | Minimum Working Distance |
|---|---|
| 2.1 to 15.0 | 2 feet 0 inches (61 cm) |
| 15.1 to 35.0 | 2 feet 4 inches (71 cm) |
| 35.1 to 46.0 | 2 feet 6 inches (76 cm) |
| 46.1 to 72.5 | 3 feet 0 inches (91 cm) |
| 72.6 to 121.0 | 3 feet 4 inches (102 cm) |
| 138.0 to 145.0 | 3 feet 6 inches (107 cm) |
| 161.0 to 169.0 | 3 feet 8 inches (112 cm) |
| 230.0 to 242.0 | 5 feet 0 inches (152 cm) |
| 345.0 to 362.0 | *7 feet 0 inches (213 cm) |
| 550.0 to 552.0 | *11 feet 0 inches (335 cm |
| 700.0 to 765.0 | *15 feet 0 inches (457 cm) |
| *Note: For 345-362 kV., 500-552 kV., and 700-765 kV., the minimum working distance and the minimum clear hot stick distance may be reduced that such distances are not less than the shortest distance between the energized part and a grounded surface | |

**No comparable OSHA provisions**

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**Table 3**

**Minimum Approach Distances for Qualified Telecommunications Employees**

| Voltage Range (Nominal Phase to Phase) | Minimum Approach Distances |
|---|---|
| 300 V and less | 1 foot - 0 inches (30.5 cm) |
| Over 300 V, not over 750 V | 1 foot - 6 inches (46 cm) |
| Over 750 V, not over 2 kV | 2 feet - 0 inches (61 cm) |
| Over 2 kV, not over 15 kV | 3 feet - 0 inches (91 cm) |
| Over 15 kV, not over 37 kV | 3 feet – 6 inches (107 cm) |
| Over 37 kV, not over 87.5 kV | 4 feet – 0 inches (122 cm) |
| Over 87.5 kV, not over 121 kV | 4 feet – 6 inches (137 cm) |
| Over 121 kV, not over 140 kV | -- |

**No comparable OSHA provisions**

| MIOSHA | OSHA |
|---|---|
| **R 408.15833 Vehicles; traffic control.**<br>**Rule 5833**. (1) to (3)****<br><br>(4) An employer shall ensure that operators of an aerial work platform over or adjacent to any public or private roadway maintain adequate clearances of all portions of the aerial work platform to prevent being struck by vehicular traffic.<br>(5) When aerial work platforms are in use, all traffic control requirements shall be in compliance with Part 6 of the 2011 Michigan Manual on Uniform Traffic Control Devices (MMUTCD), which is adopted in R 408.15810, and Construction Safety Part 22. Signals, Signs, Tags, and Barricades, R 408.42201 to R 408.42243, as referenced in R 408.15810. | Equivalent<br><br>**No comparable OSHA provision.** |
| **R 408.15836. Fall protection.**<br>**Rule 5836** (1) The employer shall provide a safety harness that has a lanyard which is in compliance with construction safety standard Part 45. "Fall Protection", R 408.44501 to R 408.44502 and which is affixed to attachment points provided and approved by the manufacturer. Any occupant of an aerial work platform described in the provisions of R 408.15802(a) and (c) and figures 1 and 3 shall use a safety harness. A fall arrest system shall only be used where the aerial lift is designed to withstand the vertical and lateral loads caused by an arrested fall.<br>(2) An employee may use a body belt with a restraint device with the lanyard and the anchor arranged so that the employee is not exposed to any fall distance. An employee is required to use a restraint device where the aerial lift cannot withstand the vertical and lateral loads imposed by an arrested fall.<br><br>(3)****<br><br>(4) An employer shall not allow employees to exit an elevated aerial work platform, except where elevated work areas are inaccessible or hazardous to reach. Employees may exit the platform with the knowledge and consent of the employer. When employees exit to unguarded work areas, fall protection shall be provided and used as prescribed in construction safety standard Part 45. "Fall Protection", R 408.44501 to R 408.44502. | **No comparable OSHA provision.**<br><br>Equivalent<br><br>**No comparable OSHA provisions** |
| **R 408.15839. Operating procedures.**<br>**Rule 5839** (1) The aerial work platform shall be used only in accordance with the manufacturers or owners operating instructions and safety rules.<br>(2) The designed rated capacity for a given angle of elevation shall not be exceeded.<br>(3) The guardrail system of the platform shall not be used to support any of the following:<br>(a) Materials.<br>(b) Other work platforms.<br>(c) Employees.<br>(4)**** | **No comparable OSHA provision.**<br><br>Equivalent |

| MIOSHA | OSHA |
|---|---|
| **Rule 5839** (5) Only aerial work platforms that are equipped with a manufacturer's installed platform controls for horizontal movement shall be moved while in the elevated position.<br>(6) Before and during driving while elevated, an operator of a platform shall do both of the following:<br>(a) Look in the direction of, and keep a clear view of, the path of travel and make sure that the path is firm and level.<br>(b) Maintain a safe distance from all of the following:<br>(i) Obstacles.<br>(ii) Debris.<br>(iii) Drop-offs.<br>(iv) Holes.<br>(v) Depressions.<br>(vi) Ramps.<br>(vii) Overhead obstructions.<br>(viii) Overhead electrical lines.<br>(ix) Other hazards to safe elevated travel.<br>(7) Outriggers or stabilizers, when provided, are to be used in accordance with the manufacturer's instruction. Brakes shall be set and outriggers and stabilizers shall be positioned on pads or a solid surface.<br>(8) Aerial work platforms shall be elevated only when on a firm and level surface or within the slope limits allowed by the manufacturer's instructions.<br>(9) A vehicle-mounted aerial work platform (figure 1) shall have its brakes set before elevating the platform. | **No comparable OSHA provision.** |
| (10) to (11)**** | Equivalent |
| (12) Platform gates shall be closed while the platform is in an elevated position.<br>(13) Altering, modifying, or disabling safety devices or interlocks is prohibited.<br>(14) Stunt driving and horseplay are prohibited. | **No comparable OSHA provisions** |
| **R 408.15842. Figures.**<br>**Rule 5840. Figures** 1, 2, 3, and 4 are as follows: | **No comparable OSHA provision** |

**FIGURE 1**
**VEHICLE-MOUNTED ELEVATING WORK PLATFORM**

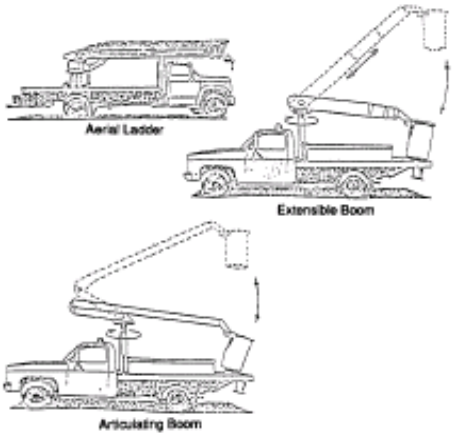


**FIGURE 2**
**MANUALLY PROPELLED ELEVATING WORK PLATFORMS**

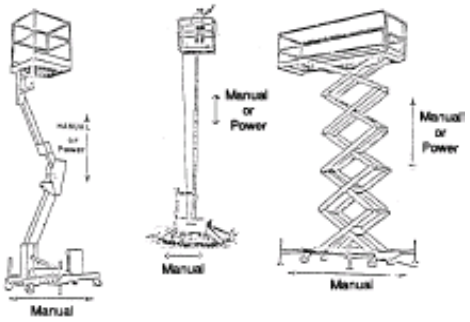


**FIGURE 3**
**BOOM-SUPPORTED ELEVATING WORK PLATFORMS**

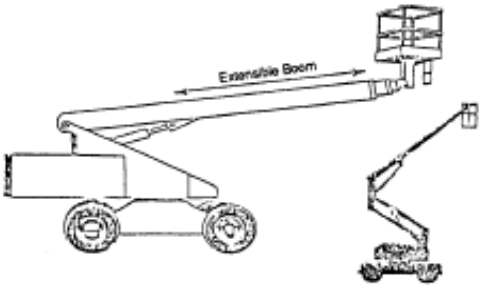


**FIGURE 4**
**SELF-PROPELLED ELEVATING WORK PLATFORMS**