

# COMPLETE LIST OF STATE-RECOGNIZED

## SECONDARY CAREER AND TECHNICAL EDUCATION (CTE) PROGRAM CIP CODES

### By Federal Career Cluster and Federal Classification of Instructional Program (CIP) Code

*Updated June 2022*

Current and Historical CIP Area Endorsements that Can Teach

CTE teachers must be appropriately certificated with the CIP code to teach CTE and/or related career pathway courses.

## **AGRICULTURE, FOOD AND NATURAL RESOURCES CLUSTER**

### **01.0000 AGRICULTURE, AGRICULTURAL OPERATIONS AND RELATED SCIENCES**

**Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:**

Agriculture Science and Natural Resources 02.9999  
Agriculture, Agricultural Operations and Related Sciences 01.0000  
Agriculture Production, General 01.0301

### **PLACEMENT OF TEACHER CANDIDATES WITH THE FOLLOWING CIPS MUST BE DISCUSSED WITH MDE-OCTE PRE-PLACEMENT**

Agricultural Construction/Maintenance 01.0306  
Agricultural Electrification 01.0307  
Agricultural Mechanical Skills 01.0305  
Agricultural Mechanics & Equip/Machinery Tech 02.0205  
Agricultural Mechanics 01.0201

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### **AGRICULTURE, FOOD AND NATURAL RESOURCES CLUSTER**

#### **01.0101 AGRICULTURE, FOOD AND NATURAL RESOURCES – Not available for new CTE application**

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Agriculture, Agricultural Operations and Related Sciences 01.0000  
Agriculture, Food & Natural Resources 01.0101  
Agriculture Production, General 01.0301  
Agriculture Science and Natural Resources 02.9999  
Agricultural Supplies/Services 01.0200  
Farm Business Management 01.0104 Feeds 01.0202  
Fertilizers 01.0204

#### **PLACEMENT OF TEACHER CANDIDATES WITH THE FOLLOWING CIPS MUST BE DISCUSSED WITH MDE-OCTE PRE-PLACEMENT**

Agricultural Structure/Conveniences 01.0302

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## AGRICULTURE, FOOD AND NATURAL RESOURCES CLUSTER

### 01.0601 APPLIED HORTICULTURE AND HORTICULTURAL OPERATIONS

**Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:**

- Agriculture Science and Natural Resources 02.9999
- Agriculture, Agricultural Operations and Related Sciences 01.0000
- Agriculture Production, General 01.0301
- Applied Horticulture and Horticultural Operations 01.0601
- Greenhouse Operation/Management 01.0503
- Ground Operations 17.0403
- Nursery Operation Management 01.0505

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## **AGRICULTURE, FOOD AND NATURAL RESOURCES CLUSTER**

### **01.0903 ANIMAL HEALTH AND VETERINARY SCIENCE**

**Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:**

Agriculture Science and Natural Resources 02.9999

Agriculture, Agricultural Operations and Related Sciences 01.0000

Agriculture Production, General 01.0301

Animal Health and Veterinary Science 01.0903

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## AGRICULTURE, FOOD AND NATURAL RESOURCES CLUSTER

### 03.0000 NATURAL RESOURCES AND CONSERVATION

Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:

Agricultural Resources 01.0600

Agriculture Science and Natural Resources 02.9999

Agriculture, Agricultural Operations and Related

Agriculture Production, General 01.0301

Environmental Health 07.0700

Forestry 01.0700

Forests 01.0107

Natural Resources and Conservation 03.0000

Sciences 01.0000

Soil Management 01.0303

Wildlife 01.0604

### PLACEMENT OF TEACHER CANDIDATES WITH THE FOLLOWING CIPs MUST BE DISCUSSED WITH MDE-OCTE PRE-PLACEMENT

Fish Farm/Hatcheries 01.0607

Water 01.0605

Water Management 01.0304

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## **AGRICULTURE, FOOD AND NATURAL RESOURCES CLUSTER**

### **26.1201 BIOTECHNOLOGY**

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Agriculture Science and Natural Resources 02.9999

Agriculture, Agricultural Operations and Related Sciences 01.0000

Biotechnology 26.1201

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## ARCHITECTURE AND CONSTRUCTION CLUSTER

### 15.1301 DRAFTING AND DESIGN TECHNOLOGY/ARCHITECTURAL

Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:

Architectural Drafting CAD 15.1303

Architectural Drafting 17.1398

Blueprint Reader 17.0500

Drafting and Design Technology/Architectural 15.1301

Drafting 48.0101

Engineering Technology 15.0000

Machine Shop 17.2302

Machine Shop 17.2303

Machine Tool Technology/Machinist 48.0501

Mechanical Drafting 15.1306

Mechatronics 14.4201

### TEACHERS CANDIDATES WITH THE FOLLOWING CIPS MUST ALSO HOLD A VALID STANDARD/PROFESSIOINAL/CONTINUING CERTIFICATE WITH IX, TX, OR TE ENDORSEMENT

Electrical and Power Transmission Installation 46.0301

Electrical, Electronics, and Comm Engineer 14.1001

Electrical/Electronics Equipment Installation and Repair

General 47.0101

Electrical/Electronics Maintenance and Repair Technology,

Other 47.0199

Electro-Mechanical Technology 15.0403

Electronics 17.1002

Industrial Production 15.0612

Precision Metal Working, Other 48.0599

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## ARCHITECTURE AND CONSTRUCTION CLUSTER

### 19.0605 HOME FURNISHINGS EQUIPMENT INSTALLERS AND CONSULTANTS

**Not available for new CTE application**

**Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:**

Home Furnishings 20.0501

Home Furnishings Equipment Installers and Consultants 19.0605

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for more information.

1. CTE certification or Annual Career Authorization is required for all state approved CTE programs.
2. If teacher is endorsed in CTE only, they cannot be placed in any classroom other than one that is state approved CTE.
3. If instruction of a CTE program is provided by a local business or postsecondary institution, on school property, an Annual Career Authorization is required for that instructor.
4. If instruction of a CTE program is provided at the postsecondary institution no Annual Career Authorization is required.



# COMPLETE LIST OF STATE-RECOGNIZED

## SECONDARY CAREER AND TECHNICAL EDUCATION (CTE) PROGRAM CIP CODES

### By Federal Career Cluster and Federal Classification of Instructional Program (CIP) Code

Updated June 2022

Current and Historical CIP Area Endorsements that Can Teach

CTE teachers must be appropriately certificated with the CIP code to teach CTE and/or related career pathway courses.

## ARCHITECTURE AND CONSTRUCTION CLUSTER

### 46.0000 CONSTRUCTION TRADES

State of Michigan license, if applicable, required to be up to date and on file.

Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:

Blueprint Reader 17.0500  
Building and Home Maintenance and Services 20.0601  
Building Maintenance 46.0401  
Carpentry 17.1001  
Construction and Maintenance 17.1000  
Construction Trades 46.0000

Construction Trades, Other 46.9901  
Dry Wall Installation 17.1008  
Foremanship 17.1700  
Hardware-Building Related 04.0900  
Masonry 17.1004  
Roofing 17.1010

If an appropriately certified teacher is not available, an Annual Career Authorization may be appropriate. Experience in CIP area must be within the 10 years prior to the date of the application. See [Annual Career Authorization \(michigan.gov\)](https://www.michigan.gov/annual-career-authorization) and [CTE Recent and Relevant Experience Requirements \(michigan.gov\)](https://www.michigan.gov/cte-recent-and-relevant-experience-requirements) for more information.

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# COMPLETE LIST OF STATE-RECOGNIZED

## SECONDARY CAREER AND TECHNICAL EDUCATION (CTE) PROGRAM CIP CODES

### By Federal Career Cluster and Federal Classification of Instructional Program (CIP) Code

*Updated June 2022*

Current and Historical CIP Area Endorsements that Can Teach

CTE teachers must be appropriately certificated with the CIP code to teach CTE and/or related career pathway courses.

## ARCHITECTURE AND CONSTRUCTION CLUSTER

### 46.0301 ELECTRICAL AND POWER TRANSMISSION INSTALLATION

State of Michigan license, if applicable, required to be up to date and on file.

Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:

Electrical and Power Transmission Installation 46.0301  
Electrical, Electronics, & Comm Engineer 14.1001  
Electricity 17.1002  
Electro-Mechanical Technology 15.0403  
Electro-Mechanical Technology 47.0199  
Electronics Occupations 17.1500

If an appropriately certified teacher is not available, an Annual Career Authorization may be appropriate. Experience in CIP area must be within the 10 years prior to the date of the application. See [Annual Career Authorization \(michigan.gov\)](https://www.michigan.gov/annual-career-authorization) and [CTE Recent and Relevant Experience Requirements \(michigan.gov\)](https://www.michigan.gov/cte-recent-and-relevant-experience-requirements) for more information.

1. CTE certification or Annual Career Authorization is required for all state approved CTE programs.
2. If teacher is endorsed in CTE only, they cannot be placed in any classroom other than one that is state approved CTE.
3. If instruction of a CTE program is provided by a local business or postsecondary institution, on school property, an Annual Career Authorization is required for that instructor.
4. If instruction of a CTE program is provided at the postsecondary institution no Annual Career Authorization is required.

# COMPLETE LIST OF STATE-RECOGNIZED

## SECONDARY CAREER AND TECHNICAL EDUCATION (CTE) PROGRAM CIP CODES

### By Federal Career Cluster and Federal Classification of Instructional Program (CIP) Code

*Updated June 2022*

Current and Historical CIP Area Endorsements that Can Teach

CTE teachers must be appropriately certificated with the CIP code to teach CTE and/or related career pathway courses.

## ARCHITECTURE AND CONSTRUCTION CLUSTER

### 46.0503 PLUMBING TECHNOLOGY

State of Michigan license, if applicable, required to be up to date and on file.

Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:

Plumbing and Pipefitting 17.1007

Plumbing Technology 46.0503

If an appropriately certified teacher is not available, an Annual Career Authorization may be appropriate. Experience in CIP area must be within the 10 years prior to the date of the application. See [Annual Career Authorization \(michigan.gov\)](https://www.michigan.gov/education/0,4570,7-293_14317_14318_14319_14320_14321_14322_14323_14324_14325_14326_14327_14328_14329_14330_14331_14332_14333_14334_14335_14336_14337_14338_14339_14340_14341_14342_14343_14344_14345_14346_14347_14348_14349_14350_14351_14352_14353_14354_14355_14356_14357_14358_14359_14360_14361_14362_14363_14364_14365_14366_14367_14368_14369_14370_14371_14372_14373_14374_14375_14376_14377_14378_14379_14380_14381_14382_14383_14384_14385_14386_14387_14388_14389_14390_14391_14392_14393_14394_14395_14396_14397_14398_14399_14400_14401_14402_14403_14404_14405_14406_14407_14408_14409_14410_14411_14412_14413_14414_14415_14416_14417_14418_14419_14420_14421_14422_14423_14424_14425_14426_14427_14428_14429_14430_14431_14432_14433_14434_14435_14436_14437_14438_14439_14440_14441_14442_14443_14444_14445_14446_14447_14448_14449_14450_14451_14452_14453_14454_14455_14456_14457_14458_14459_14460_14461_14462_14463_14464_14465_14466_14467_14468_14469_14470_14471_14472_14473_14474_14475_14476_14477_14478_14479_14480_14481_14482_14483_14484_14485_14486_14487_14488_14489_14490_14491_14492_14493_14494_14495_14496_14497_14498_14499_14500_14501_14502_14503_14504_14505_14506_14507_14508_14509_14510_14511_14512_14513_14514_14515_14516_14517_14518_14519_14520_14521_14522_14523_14524_14525_14526_14527_14528_14529_14530_14531_14532_14533_14534_14535_14536_14537_14538_14539_14540_14541_14542_14543_14544_14545_14546_14547_14548_14549_14550_14551_14552_14553_14554_14555_14556_14557_14558_14559_14560_14561_14562_14563_14564_14565_14566_14567_14568_14569_14570_14571_14572_14573_14574_14575_14576_14577_14578_14579_14580_14581_14582_14583_14584_14585_14586_14587_14588_14589_14590_14591_14592_14593_14594_14595_14596_14597_14598_14599_14600_14601_14602_14603_14604_14605_14606_14607_14608_14609_14610_14611_14612_14613_14614_14615_14616_14617_14618_14619_14620_14621_14622_14623_14624_14625_14626_14627_14628_14629_14630_14631_14632_14633_14634_14635_14636_14637_14638_14639_14640_14641_14642_14643_14644_14645_14646_14647_14648_14649_14650_14651_14652_14653_14654_14655_14656_14657_14658_14659_14660_14661_14662_14663_14664_14665_14666_14667_14668_14669_14670_14671_14672_14673_14674_14675_14676_14677_14678_14679_14680_14681_14682_14683_14684_14685_14686_14687_14688_14689_14690_14691_14692_14693_14694_14695_14696_14697_14698_14699_14700_14701_14702_14703_14704_14705_14706_14707_14708_14709_14710_14711_14712_14713_14714_14715_14716_14717_14718_14719_14720_14721_14722_14723_14724_14725_14726_14727_14728_14729_14730_14731_14732_14733_14734_14735_14736_14737_14738_14739_14740_14741_14742_14743_14744_14745_14746_14747_14748_14749_14750_14751_14752_14753_14754_14755_14756_14757_14758_14759_14760_14761_14762_14763_14764_14765_14766_14767_14768_14769_14770_14771_14772_14773_14774_14775_14776_14777_14778_14779_14780_14781_14782_14783_14784_14785_14786_14787_14788_14789_14790_14791_14792_14793_14794_14795_14796_14797_14798_14799_14800_14801_14802_14803_14804_14805_14806_14807_14808_14809_14810_14811_14812_14813_14814_14815_14816_14817_14818_14819_14820_14821_14822_14823_14824_14825_14826_14827_14828_14829_14830_14831_14832_14833_14834_14835_14836_14837_14838_14839_14840_14841_14842_14843_14844_14845_14846_14847_14848_14849_14850_14851_14852_14853_14854_14855_14856_14857_14858_14859_14860_14861_14862_14863_14864_14865_14866_14867_14868_14869_14870_14871_14872_14873_14874_14875_14876_14877_14878_14879_14880_14881_14882_14883_14884_14885_14886_14887_14888_14889_14890_14891_14892_14893_14894_14895_14896_14897_14898_14899_14900_14901_14902_14903_14904_14905_14906_14907_14908_14909_14910_14911_14912_14913_14914_14915_14916_14917_14918_14919_14920_14921_14922_14923_14924_14925_14926_14927_14928_14929_14930_14931_14932_14933_14934_14935_14936_14937_14938_14939_14940_14941_14942_14943_14944_14945_14946_14947_14948_14949_14950_14951_14952_14953_14954_14955_14956_14957_14958_14959_14960_14961_14962_14963_14964_14965_14966_14967_14968_14969_14970_14971_14972_14973_14974_14975_14976_14977_14978_14979_14980_14981_14982_14983_14984_14985_14986_14987_14988_14989_14990_14991_14992_14993_14994_14995_14996_14997_14998_14999_15000) 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for more information.

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# COMPLETE LIST OF STATE-RECOGNIZED

## SECONDARY CAREER AND TECHNICAL EDUCATION (CTE) PROGRAM CIP CODES

### By Federal Career Cluster and Federal Classification of Instructional Program (CIP) Code

*Updated June 2022*

Current and Historical CIP Area Endorsements that Can Teach

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## ARCHITECTURE AND CONSTRUCTION CLUSTER

### 47.0201 HEATING, AIR CONDITIONING, VENTILATION AND REFRIGERATION

**Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:**

Cooling 17.0101

Gas Appliances 17.0202

Heating 17.0102

Heating, Air Conditioning, Ventilation and Refrigeration 47.0201

Refrigeration 17.3000

Ventilating 17.0103

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## ARTS, A/V TECHNOLOGY, AND COMMUNICATIONS CLUSTER

### 10.0202 RADIO AND TV BROADCASTING TECHNOLOGY

**Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:**

Radio & TV Broadcasting Technology 10.0202

Radio & TV Production 09.0701

Radio/Television 17.1503

Radiological Technician 07.0702

TV and Radio Production 17.1599

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## ARTS, A/V TECHNOLOGY, AND COMMUNICATIONS CLUSTER

### 10.0301 GRAPHICS AND PRINTING TECHNOLOGY AND COMMUNICATIONS

**Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:**

Commercial Art Occupation 17.0700  
Commercial Photo Occupations 17.0900  
Composition Make-Up and Type 17.1901  
Glazing 17.1009  
Graphics and Printing 48.0201  
Graphics and Printing Tech. Communications 10.0301  
Graphic Arts Occupations 17.1900

Litho Photo and Plate Making 17.1903  
Photo Lab and Dark Room Occupation 17.0901  
Photoengraving 17.1904  
Printing Press Occupation 17.1902  
Production Design 17.0703  
Silk Screen Making/Print 17.1905  
Visual Imaging 48.029

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## **ARTS, A/V TECHNOLOGY, AND COMMUNICATIONS CLUSTER**

### **50.0101 VISUAL AND PERFORMING ARTS**

**Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:**

Communications 17.1501

Drama/Theater Arts and Stage Craft 50.0599

Visual and Performing Arts 50.0101

Visual Communications Technology 50.0401

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### **ARTS, A/V TECHNOLOGY, AND COMMUNICATIONS CLUSTER**

#### **19.0906 FASHION DESIGN – Not available for new CTE application**

**Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:**

Apparel and Accessories 04.0200  
Clothing Management 09.0202  
Fabric Maintenance 17.1600  
Fashion Design 19.0606  
Floor Covering 17.1097  
Floriculture 01.0502  
Floristry 04.0500  
Interior Decorating 17.0701

Leather working 17.3400  
Painting and Decorating 17.1005  
Shoe Manufacturing 17.3401  
Tailoring 17.3300  
Textile Production 17.3302  
Upholstery 17.3500  
Window Display 17.0702

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## **BUSINESS, MANAGEMENT AND ADMINISTRATION CLUSTER**

### **52.0299 BUSINESS ADMINISTRATION MANAGEMENT AND OPERATIONS**

**Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:**

Accounting and Computing 14.0100	Information Technology 11.1000
Business Administration Management and Operations 52.0299	Insurance 52.1701
Business Machine Repair 47.0102	Marketing Education 08.0708
Business Services 07.0999	Marketing, Sales and Service 52.1999
Business Services and Technology 52.9999	Marketing, Sales and Services 08.0700
Business, Management and Administration 52.9994	Office 14.0000
Clerical and Sec Lab 14.9900	Secretarial Programs 07.0601
Clinical Lab 14.9700	Steno/Clerical 14.0700
Data Processing/Business 07.0301	Steno/Clerical Lab 14.9800
Distributive Education 04.0000	Supervisory and Administration 14.0800
Finance and Credit 04.0400	Typing and Related Occupation 14.0900
Finance and Financial Management Services 52.0800	
General Office Clerical 14.0300	
Information Communication 14.0400	

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## EDUCATION AND TRAINING CLUSTER

### 13.0000 EDUCATION GENERAL

**New teacher candidate must have at least one of the following:**

- A Michigan teaching certification
- A Masters Degree in Early Childhood Education or related field

**Instructors with the following CIPs may teach this program:**

Education General 13.0000

Teacher Cadet 13.0000

**PLACEMENT OF TEACHER CANDIDATES THAT DO NOT MEET THE ABOVE REQUIREMENTS MUST BE DISCUSSED WITH OCTE AND OEE**

**Completion of the South Carolina Model from The Center for Educator Recruitment, Retention, and Advancement (CERRA) for preparation of new teacher candidates is no longer an option.**

If an appropriately certified teacher is not available, an Annual Career Authorization may be appropriate. Experience in CIP area must be within the 10 years prior to the date of the application. See [Annual Career Authorization \(michigan.gov\)](https://www.michigan.gov/annual-career-authorization) and [CTE Recent and Relevant Experience Requirements \(michigan.gov\)](https://www.michigan.gov/cte-recent-and-relevant-experience-requirements) for more information.

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## ENERGY CLUSTER

### 46.0303 LINEWORKER

**Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:**

Appliance Repair 17.0200  
Construction Trades 46.0000  
Construction Trades, Other 46.9999  
Electric Lineman 46.0303  
Electric Power Generation Plants 17.3201  
Electrical and Power Transmission Installation 46.0301  
Electrical Appliance 17.0201

Electrical, Electronics and Comm Engineer 14.1001  
Electrical/Electronics Equip. Installation and Repair 47.0101  
Electricity 17.1002  
Electro-Mechanical Tech 15.0403  
Electro-Mechanical Tech 47.0199  
Electronics Occupations 17.1500  
Lineman 17.1402

If an appropriately certified teacher is not available, an Annual Career Authorization may be appropriate. Experience in CIP area must be within the 10 years prior to the date of the application. See [Annual Career Authorization \(michigan.gov\)](https://www.michigan.gov/annual-career-authorization) and [CTE Recent and Relevant Experience Requirements \(michigan.gov\)](https://www.michigan.gov/cte-recent-and-relevant-experience-requirements) for more information.

1. CTE certification or Annual Career Authorization is required for all state approved CTE programs.
2. If teacher is endorsed in CTE only, they cannot be placed in any classroom other than one that is state approved CTE.
3. If instruction of a CTE program is provided by a local business or postsecondary institution, on school property, an Annual Career Authorization is required for that instructor.
4. If instruction of a CTE program is provided at the postsecondary institution no Annual Career Authorization is required.

# COMPLETE LIST OF STATE-RECOGNIZED

## SECONDARY CAREER AND TECHNICAL EDUCATION (CTE) PROGRAM CIP CODES

### By Federal Career Cluster and Federal Classification of Instructional Program (CIP) Code

Updated June 2022

Current and Historical CIP Area Endorsements that Can Teach

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### ENERGY CLUSTER

#### 46.0502 PLUMBING PIPEFITTER AND SPRINKLER FITTER

**Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:**

Appliance Repair 17.0200

Construction Trades 46.0000

Construction Trades, Other 46.9999

Electric Lineman 46.0303

Electric Power Generation Plants 17.3201

Electrical and Power Transmission Installation 46.0301

Electrical Appliance 17.0301

Electrical, Electronics and Comm Engineer 14.1001

Electricity 17.1002

Electro-Mechanical Tech 15.0403

Electro-Mechanical Tech 47.0199

Electronics Occupations 17.1500

Heating, Air Conditioning, Ventilation and Refrigeration 47.0302

Lineman 17.1402

Plumbing and Pipefitting 17.1007

If an appropriately certified teacher is not available, an Annual Career Authorization may be appropriate. Experience in CIP area must be within the 10 years prior to the date of the application. See [Annual Career Authorization \(michigan.gov\)](https://www.michigan.gov/annual-career-authorization) and [CTE Recent and Relevant Experience Requirements \(michigan.gov\)](https://www.michigan.gov/cte-recent-and-relevant-experience-requirements) for more information.

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## COMPLETE LIST OF STATE-RECOGNIZED

### SECONDARY CAREER AND TECHNICAL EDUCATION (CTE) PROGRAM CIP CODES

#### By Federal Career Cluster and Federal Classification of Instructional Program (CIP) Code

*Updated June 2022*

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### **FAMILY AND CONSUMER SCIENCES (non-wage earning) CLUSTER**

#### **19.0000 FAMILY AND CONSUMER SCIENCES – Not available for new CTE application**

**Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:**

Family and Consumer Sciences 19.0000

Consumer and Homemaking 09.0100

Consumer and Homemaking 20.0100

Custodial Services 20.0699

Custodial, Housekeeping and Home Svcs 19.0699

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## SECONDARY CAREER AND TECHNICAL EDUCATION (CTE) PROGRAM CIP CODES

### By Federal Career Cluster and Federal Classification of Instructional Program (CIP) Code

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## FINANCE CLUSTER

### 52.0800 FINANCE AND FINANCIAL MANAGEMENT SERVICES

**Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:**

Accounting and Computing 14.0100  
Business Administration Management and Operations 52.0299  
Business Machine Repair 47.0102  
Business Services 07.0999  
Business Services and Technology 52.9999  
Business, Management and Administration 52.9994  
Clerical & Sec Lab 14.9900  
Clerical Lab 14.9700  
Data Processing/Business 07.0301  
Distributive Education 04.0000  
Finance and Credit 04.0400  
Finance and Financial Management and Services 52.0800  
General Office Clerical 14.0300

Information Technology 11.1000  
Information Communication 14.0400  
Insurance 52.1701  
Marketing Education 08.0708  
Marketing, Sales and Service 52.1999  
Marketing, Sales and Services 08.0700  
Office 14.0000  
Secretarial Programs 07.0601  
Steno/Clerical 14.0700  
Steno/Clerical Lab 14.9800  
Supervisory and Administration 14.0800  
Typing and Related Occupation 14.0900

If an appropriately certified teacher is not available, an Annual Career Authorization may be appropriate. Experience in CIP area must be within the 10 years prior to the date of the application. See [Annual Career Authorization \(michigan.gov\)](https://www.michigan.gov/annual-career-authorization) and [CTE Recent and Relevant Experience Requirements \(michigan.gov\)](https://www.michigan.gov/cte-recent-and-relevant-experience-requirements) for more information.

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# COMPLETE LIST OF STATE-RECOGNIZED

## SECONDARY CAREER AND TECHNICAL EDUCATION (CTE) PROGRAM CIP CODES

### By Federal Career Cluster and Federal Classification of Instructional Program (CIP) Code

Updated June 2022

Current and Historical CIP Area Endorsements that Can Teach

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## FINANCE CLUSTER

### 52.1707 INSURANCE

**Instructors with the following CIPs may teach this program - Standard/Professional/Continuing teaching certificate not required:**

Accounting and Computing 14.0100  
Business Administration Management and Operations 52.0299  
Business Machine Repair 47.0102  
Business Services 07.0999  
Business Services and Technology 52.9999  
Business, Management and Administration 52.9994  
Clerical & Sec Lab 14.9900  
Clerical Lab 14.9700  
Data Processing/Business 07.0301  
Distributive Education 04.0000  
Finance and Credit 04.0400  
Finance and Financial Management and Services 52.0800  
General Office Clerical 14.0300  
Information Technology 11.1000  
Information Communication 14.0400

Insurance 52.1701  
Marketing Education 08.0708  
Marketing, Sales and Service 52.1999  
Marketing, Sales and Services 08.0700  
Office 14.0000  
Secretarial Programs 07.0601  
Steno/Clerical 14.0700  
Steno/Clerical Lab 14.9800  
Supervisory and Administration 14.0800  
Typing and Related Occupation 14.0900

If an appropriately certified teacher is not available, an Annual Career Authorization may be appropriate. Experience in CIP area must be within the 10 years prior to the date of the application. See [Annual Career Authorization \(michigan.gov\)](https://www.michigan.gov/annual-career-authorization) and [CTE Recent and Relevant Experience Requirements \(michigan.gov\)](https://www.michigan.gov/cte-recent-and-relevant-experience-requirements) for more information.

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# COMPLETE LIST OF STATE-RECOGNIZED

## SECONDARY CAREER AND TECHNICAL EDUCATION (CTE) PROGRAM CIP CODES

### By Federal Career Cluster and Federal Classification of Instructional Program (CIP) Code

*Updated June 2022*

Current and Historical CIP Area Endorsements that Can Teach

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## GOVERNMENT AND PUBLIC ADMINISTRATION CLUSTER

### 28.0301 ARMY (JROTC)

Instructors must hold a U.S. Department of Defense (DoD) Qualification Memorandum (Credential).

**Annual Authorization or CTE Certificate is not an option.**

**Any branch of military qualifies under JROTC CIP 28.0301.**

If an appropriately certified teacher is not available, an Annual Career Authorization may be appropriate. Experience in CIP area must be within the 10 years prior to the date of the application. See [Annual Career Authorization \(michigan.gov\)](https://www.michigan.gov/annual-career-authorization) and [CTE Recent and Relevant Experience Requirements \(michigan.gov\)](https://www.michigan.gov/cte-recent-and-relevant-experience-requirements) for more information.

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## SECONDARY CAREER AND TECHNICAL EDUCATION (CTE) PROGRAM CIP CODES

### By Federal Career Cluster and Federal Classification of Instructional Program (CIP) Code

*Updated June 2022*

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### HEALTH SCIENCE CLUSTER

#### 26.0102 BIOMEDICAL SCIENCES, GENERAL

State of Michigan license, if applicable required to be up to date and on file.

Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:

Biotechnology 26.1201  
Biotechnology Medical Services 26.0102  
Cytology Technician 07.0201  
Histology 07.0202

If an appropriately certified teacher is not available, an Annual Career Authorization may be appropriate. Experience in CIP area must be within the 10 years prior to the date of the application. See [Annual Career Authorization \(michigan.gov\)](https://www.michigan.gov/annual-career-authorization) and [CTE Recent and Relevant Experience Requirements \(michigan.gov\)](https://www.michigan.gov/cte-recent-and-relevant-experience-requirements) for more information.

1. CTE certification or Annual Career Authorization is required for all state approved CTE programs.
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# COMPLETE LIST OF STATE-RECOGNIZED

## SECONDARY CAREER AND TECHNICAL EDUCATION (CTE) PROGRAM CIP CODES

### By Federal Career Cluster and Federal Classification of Instructional Program (CIP) Code

Updated June 2022

Current and Historical CIP Area Endorsements that Can Teach

CTE teachers must be appropriately certificated with the CIP code to teach CTE and/or related career pathway courses.

### HEALTH SCIENCE CLUSTER

**51.0000 HEALTH SCIENCES/ALLIED HEALTH/HEALTH SCIENCES, GENERAL– State of Michigan license, if applicable, required to be up to date and on file.**

**Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:**

Therapeutic Services 51.0000  
Health Sciences

#### **TEACHER CANDIDATES WITH THE FOLLOWING CIPS MUST BE DISCUSSED WITH MDE-OCTE PRE-PLACEMENT**

Allied Health Technology 51.9999  
Dental Hygienist 07.0102  
Dental Lab Technician 07.0103  
Dental Occupations 17.0100  
General Health Occupations 07.9900  
Health 07.000  
Health Occupations Cluster 07.9802  
Health Occupations Cluster 17.9900  
Medical Assisting 17.0503  
Medical Emergency Tech 07.0907

Nursing 07.0300  
Nursing Aide 07.0303  
Nursing Occupations 17.0600  
Occupational Preparation 09.0200  
Occupational Therapy 07.0401  
Pharmacy Assistant 07.9803  
Physical Therapy 07.0402  
Practical Nursing 07.0302  
Ward Clerk 07.9801

If an appropriately certified teacher is not available, an Annual Career Authorization may be appropriate. Experience in CIP area must be within the 10 years prior to the date of the application. See [Annual Career Authorization \(michigan.gov\)](https://www.michigan.gov/annual-career-authorization) and [CTE Recent and Relevant Experience Requirements \(michigan.gov\)](https://www.michigan.gov/cte-recent-and-relevant-experience-requirements) for more information.

1. CTE certification or Annual Career Authorization is required for all state approved CTE programs.
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SECONDARY CAREER AND TECHNICAL EDUCATION (CTE) PROGRAM CIP CODES  
By Federal Career Cluster and Federal Classification of Instructional Program (CIP) Code**

*Updated June 2022*

Current and Historical CIP Area Endorsements that Can Teach  
CTE teachers must be appropriately certificated with the CIP code to teach CTE and/or related career pathway courses.

**HEALTH SCIENCE CLUSTER**

**51.0707 HEALTH INFORMATION/MEDICAL RECORDS TECHNOLOGY/TECHNICIAN**

**State of Michigan license, if applicable, required to be up to date and on file.**

**Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:**

Health Informatics 51.0707  
Health Sciences

**TEACHER CANDIDATES WITH THE FOLLOWING CIPS MUST BE DISCUSSED WITH MDE-OCTE PRE-PLACEMENT**

Therapeutic Services 51.0000

If an appropriately certified teacher is not available, an Annual Career Authorization may be appropriate. Experience in CIP area must be within the 10 years prior to the date of the application. See [Annual Career Authorization \(michigan.gov\)](https://www.michigan.gov/education/0,4570,7-293_14317_14318_14319_14320_14321_14322_14323_14324_14325_14326_14327_14328_14329_14330_14331_14332_14333_14334_14335_14336_14337_14338_14339_14340_14341_14342_14343_14344_14345_14346_14347_14348_14349_14350_14351_14352_14353_14354_14355_14356_14357_14358_14359_14360_14361_14362_14363_14364_14365_14366_14367_14368_14369_14370_14371_14372_14373_14374_14375_14376_14377_14378_14379_14380_14381_14382_14383_14384_14385_14386_14387_14388_14389_14390_14391_14392_14393_14394_14395_14396_14397_14398_14399_14400_14401_14402_14403_14404_14405_14406_14407_14408_14409_14410_14411_14412_14413_14414_14415_14416_14417_14418_14419_14420_14421_14422_14423_14424_14425_14426_14427_14428_14429_14430_14431_14432_14433_14434_14435_14436_14437_14438_14439_14440_14441_14442_14443_14444_14445_14446_14447_14448_14449_14450_14451_14452_14453_14454_14455_14456_14457_14458_14459_14460_14461_14462_14463_14464_14465_14466_14467_14468_14469_14470_14471_14472_14473_14474_14475_14476_14477_14478_14479_14480_14481_14482_14483_14484_14485_14486_14487_14488_14489_14490_14491_14492_14493_14494_14495_14496_14497_14498_14499_14500_14501_14502_14503_14504_14505_14506_14507_14508_14509_14510_14511_14512_14513_14514_14515_14516_14517_14518_14519_14520_14521_14522_14523_14524_14525_14526_14527_14528_14529_14530_14531_14532_14533_14534_14535_14536_14537_14538_14539_14540_14541_14542_14543_14544_14545_14546_14547_14548_14549_14550_14551_14552_14553_14554_14555_14556_14557_14558_14559_14560_14561_14562_14563_14564_14565_14566_14567_14568_14569_14570_14571_14572_14573_14574_14575_14576_14577_14578_14579_14580_14581_14582_14583_14584_14585_14586_14587_14588_14589_14590_14591_14592_14593_14594_14595_14596_14597_14598_14599_14600_14601_14602_14603_14604_14605_14606_14607_14608_14609_14610_14611_14612_14613_14614_14615_14616_14617_14618_14619_14620_14621_14622_14623_14624_14625_14626_14627_14628_14629_14630_14631_14632_14633_14634_14635_14636_14637_14638_14639_14640_14641_14642_14643_14644_14645_14646_14647_14648_14649_14650_14651_14652_14653_14654_14655_14656_14657_14658_14659_14660_14661_14662_14663_14664_14665_14666_14667_14668_14669_14670_14671_14672_14673_14674_14675_14676_14677_14678_14679_14680_14681_14682_14683_14684_14685_14686_14687_14688_14689_14690_14691_14692_14693_14694_14695_14696_14697_14698_14699_14700_14701_14702_14703_14704_14705_14706_14707_14708_14709_14710_14711_14712_14713_14714_14715_14716_14717_14718_14719_14720_14721_14722_14723_14724_14725_14726_14727_14728_14729_14730_14731_14732_14733_14734_14735_14736_14737_14738_14739_14740_14741_14742_14743_14744_14745_14746_14747_14748_14749_14750_14751_14752_14753_14754_14755_14756_14757_14758_14759_14760_14761_14762_14763_14764_14765_14766_14767_14768_14769_14770_14771_14772_14773_14774_14775_14776_14777_14778_14779_14780_14781_14782_14783_14784_14785_14786_14787_14788_14789_14790_14791_14792_14793_14794_14795_14796_14797_14798_14799_14800_14801_14802_14803_14804_14805_14806_14807_14808_14809_14810_14811_14812_14813_14814_14815_14816_14817_14818_14819_14820_14821_14822_14823_14824_14825_14826_14827_14828_14829_14830_14831_14832_14833_14834_14835_14836_14837_14838_14839_14840_14841_14842_14843_14844_14845_14846_14847_14848_14849_14850_14851_14852_14853_14854_14855_14856_14857_14858_14859_14860_14861_14862_14863_14864_14865_14866_14867_14868_14869_14870_14871_14872_14873_14874_14875_14876_14877_14878_14879_14880_14881_14882_14883_14884_14885_14886_14887_14888_14889_14890_14891_14892_14893_14894_14895_14896_14897_14898_14899_14900_14901_14902_14903_14904_14905_14906_14907_14908_14909_14910_14911_14912_14913_14914_14915_14916_14917_14918_14919_14920_14921_14922_14923_14924_14925_14926_14927_14928_14929_14930_14931_14932_14933_14934_14935_14936_14937_14938_14939_14940_14941_14942_14943_14944_14945_14946_14947_14948_14949_14950_14951_14952_14953_14954_14955_14956_14957_14958_14959_14960_14961_14962_14963_14964_14965_14966_14967_14968_14969_14970_14971_14972_14973_14974_14975_14976_14977_14978_14979_14980_14981_14982_14983_14984_14985_14986_14987_14988_14989_14990_14991_14992_14993_14994_14995_14996_14997_14998_14999_15000) and [CTE Recent and Relevant Experience Requirements \(michigan.gov\)](https://www.michigan.gov/education/0,4570,7-293_14317_14318_14319_14320_14321_14322_14323_14324_14325_14326_14327_14328_14329_14330_14331_14332_14333_14334_14335_14336_14337_14338_14339_14340_14341_14342_14343_14344_14345_14346_14347_14348_14349_14350_14351_14352_14353_14354_14355_14356_14357_14358_14359_14360_14361_14362_14363_14364_14365_14366_14367_14368_14369_14370_14371_14372_14373_14374_14375_14376_14377_14378_14379_14380_14381_14382_14383_14384_14385_14386_14387_14388_14389_14390_14391_14392_14393_14394_14395_14396_14397_14398_14399_14400_14401_14402_14403_14404_14405_14406_14407_14408_14409_14410_14411_14412_14413_14414_14415_14416_14417_14418_14419_14420_14421_14422_14423_14424_14425_14426_14427_14428_14429_14430_14431_14432_14433_14434_14435_14436_14437_14438_14439_14440_14441_14442_14443_14444_14445_14446_14447_14448_14449_14450_14451_14452_14453_14454_14455_14456_14457_14458_14459_14460_14461_14462_14463_14464_14465_14466_14467_14468_14469_14470_14471_14472_14473_14474_14475_14476_14477_14478_14479_14480_14481_14482_14483_14484_14485_14486_14487_14488_14489_14490_14491_14492_14493_14494_14495_14496_14497_14498_14499_14500_14501_14502_14503_14504_14505_14506_14507_14508_14509_14510_14511_14512_14513_14514_14515_14516_14517_14518_14519_14520_14521_14522_14523_14524_14525_14526_14527_14528_14529_14530_14531_14532_14533_14534_14535_14536_14537_14538_14539_14540_14541_14542_14543_14544_14545_14546_14547_14548_14549_14550_14551_14552_14553_14554_14555_14556_14557_14558_14559_14560_14561_14562_14563_14564_14565_14566_14567_14568_14569_14570_14571_14572_14573_14574_14575_14576_14577_14578_14579_14580_14581_14582_14583_14584_14585_14586_14587_14588_14589_14590_14591_14592_14593_14594_14595_14596_14597_14598_14599_14600_14601_14602_14603_14604_14605_14606_14607_14608_14609_14610_14611_14612_14613_14614_14615_14616_14617_14618_14619_14620_14621_14622_14623_14624_14625_14626_14627_14628_14629_14630_14631_14632_14633_14634_14635_14636_14637_14638_14639_14640_14641_14642_14643_14644_14645_14646_14647_14648_14649_14650_14651_14652_14653_14654_14655_14656_14657_14658_14659_14660_14661_14662_14663_14664_14665_14666_14667_14668_14669_14670_14671_14672_14673_14674_14675_14676_14677_14678_14679_14680_14681_14682_14683_14684_14685_14686_14687_14688_14689_14690_14691_14692_14693_14694_14695_14696_14697_14698_14699_14700_14701_14702_14703_14704_14705_14706_14707_14708_14709_14710_14711_14712_14713_14714_14715_14716_14717_14718_14719_14720_14721_14722_14723_14724_14725_14726_14727_14728_14729_14730_14731_14732_14733_14734_14735_14736_14737_14738_14739_14740_14741_14742_14743_14744_14745_14746_14747_14748_14749_14750_14751_14752_14753_14754_14755_14756_14757_14758_14759_14760_14761_14762_14763_14764_14765_14766_14767_14768_14769_14770_14771_14772_14773_14774_14775_14776_14777_14778_14779_14780_14781_14782_14783_14784_14785_14786_14787_14788_14789_14790_14791_14792_14793_14794_14795_14796_14797_14798_14799_14800_14801_14802_14803_14804_14805_14806_14807_14808_14809_14810_14811_14812_14813_14814_14815_14816_14817_14818_14819_14820_14821_14822_14823_14824_14825_14826_14827_14828_14829_14830_14831_14832_14833_14834_14835_14836_14837_14838_14839_14840_14841_14842_14843_14844_14845_14846_14847_14848_14849_14850_14851_14852_14853_14854_14855_14856_14857_14858_14859_14860_14861_14862_14863_14864_14865_14866_14867_14868_14869_14870_14871_14872_14873_14874_14875_14876_14877_14878_14879_14880_14881_14882_14883_14884_14885_14886_14887_14888_14889_14890_14891_14892_14893_14894_14895_14896_14897_14898_14899_14900_14901_14902_14903_14904_14905_14906_14907_14908_14909_14910_14911_14912_14913_14914_14915_14916_14917_14918_14919_14920_14921_14922_14923_14924_14925_14926_14927_14928_14929_14930_14931_14932_14933_14934_14935_14936_14937_14938_14939_14940_14941_14942_14943_14944_14945_14946_14947_14948_14949_14950_14951_14952_14953_14954_14955_14956_14957_14958_14959_14960_14961_14962_14963_14964_14965_14966_14967_14968_14969_14970_14971_14972_14973_14974_14975_14976_14977_14978_14979_14980_14981_14982_14983_14984_14985_14986_14987_14988_14989_14990_14991_14992_14993_14994_14995_14996_14997_14998_14999_15000) for more information.

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# COMPLETE LIST OF STATE-RECOGNIZED

## SECONDARY CAREER AND TECHNICAL EDUCATION (CTE) PROGRAM CIP CODES

### By Federal Career Cluster and Federal Classification of Instructional Program (CIP) Code

*Updated June 2022*

Current and Historical CIP Area Endorsements that Can Teach

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### HEALTH SCIENCE CLUSTER

#### 51.1000 CLINICAL/MEDICAL LABORATORY SCIENCE/RESEARCH AND ALLIED PROFESSIONS

**Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:**

Diagnostic Services 51.1000  
Health Sciences

#### TEACHER CANDIDATES WITH THE FOLLOWING CIPS MUST BE DISCUSSED WITH MDE-OCTE PRE-PLACEMENT

Therapeutic Services 51.0000  
Inhalation Therapy 07.0903  
Medical Lab Assistant 07.0203  
Medical Lab Technician 17.0300  
Operation Room Technician 07.0305  
Optical Mechanics 17.2101  
Radiological Technician 07.0702  
X-ray Technician 07.0501

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## HOSPITALITY AND TOURISM CLUSTER

### 12.0500 COOKING AND RELATED CULINARY ARTS

Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:

Baker 17.2901  
Cook/Chef 17.2900  
Cooking and Related Culinary Arts 12.0500  
Food Management 20.0401  
Food Management 20.0499  
Personal and Culinary Services 12.9999

### TEACHER CANDIDATES WITH THE FOLLOWING CIPS MUST BE DISCUSSED WITH MDE-OCTE PRE-PLACEMENT

Food Service 04.0700	Recreation 01.0602
Food Service Hospital 07.0908	Recreation and Tourism 04.1800
Hotel and Lodging 04.1100	Meat Cutter 17.2903
Quality Food Operations 17.2900	Waiter/Waitress 17.2904

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**COMPLETE LIST OF STATE-RECOGNIZED**  
**SECONDARY CAREER AND TECHNICAL EDUCATION (CTE) PROGRAM CIP CODES**  
**By Federal Career Cluster and Federal Classification of Instructional Program (CIP) Code**  
*Updated June 2022*

Current and Historical CIP Area Endorsements that Can Teach  
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**HOSPITALITY AND TOURISM CLUSTER**

**52.0901 HOSPITALITY ADMINISTRATION/MANAGEMENT, GENERAL**

**Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:**

Hotel and Lodging 04.1100	Tourism and Travel Services Management 52.0903
Recreation and Tourism 04.1800	Hotel/Motel Administration/Management 52.0904
Hospitality Administration/Management, General 52.0901	Resort Management 52.0906

**TEACHER CANDIDATES WITH THE FOLLOWING CIPS MUST BE DISCUSSED WITH MDE-OCTE PRE-PLACEMENT FOR A REVIEW OF EXPERIENCE AND MAY NEED TO ACQUIRE A CERTIFIED HOSPITALITY INSTRUCTOR CREDENTIAL.**

Recreation 01.0602	Family and Consumer Science 19.0000
Cooking and Related Culinary Arts 12.0500	Business Administration Management and Operations 52.0299
Personal and Culinary Services 12.9999	Business, Management and Administration 52.9994
Quality Food Operations 17.2900	Marketing, Sales and Services 52.1999
Food Management 20.0401	Marketing, Sales and Services 08.0700
Food Management 20.0499	

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## HUMAN SERVICES CLUSTER

### 12.0400 COSMETOLOGY

**State of Michigan license and Instructor's license required to be up to date and on file.**

**Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:**

Cosmetology 12.0400

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### HUMAN SERVICES CLUSTER

#### 19.0700 CHILD AND CUSTODIAL CARE SERVICES – **Not available for new CTE application**

**Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:**

- Child and Adult Care Services 20.0299
- Child and Custodial Care Services 19.0700
- Child Care and Guidance 20.0201

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## INFORMATION TECHNOLOGY CLUSTER

### 11.0201 COMPUTER PROGRAMMING/PROGRAMMER

**Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:**

Accounting and Computing 14.0100  
Business Administration Management and Operations 52.0299  
Business Machine Repair 47.0102  
Business Services 07.0999  
Business Services and Technology 52.9999  
Business, Management and Administration 52.9994  
Clerical & Sec Lab 14.9900  
Clerical Lab 14.9700  
Data Processing/Business 07.0301  
Distributive Education 04.0000  
Finance and Credit 04.0400  
Finance and Financial Management and Services 52.0800  
General Office Clerical 14.0300

Information Technology 11.1000  
Information Communication 14.0400  
Insurance 52.1701  
Marketing Education 08.0708  
Marketing, Sales and Service 52.1999  
Marketing, Sales and Services 08.0700  
Office 14.0000  
Secretarial Programs 07.0601  
Steno/Clerical 14.0700  
Steno/Clerical Lab 14.9800  
Supervisory and Administration 14.0800  
Typing and Related Occupation 14.0900

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## INFORMATION TECHNOLOGY CLUSTER

### 11.0801 DIGITAL/MULTIMEDIA AND INFORMATION RESOURCES DESIGN

Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:

Accounting and Computing 14.0100	Information Technology 11.1000
Business Administration Management and Operations 52.0299	Information Communication 14.0400
Business Machine Repair 47.0102	Insurance 52.1701
Business Services 07.0999	Marketing Education 08.0708
Business Services and Technology 52.9999	Marketing, Sales and Service 52.1999
Business, Management and Administration 52.9994	Marketing, Sales and Services 08.0700
Clerical & Sec Lab 14.9900	Office 14.0000
Clerical Lab 14.9700	Secretarial Programs 07.0601
Data Processing/Business 07.0301	Steno/Clerical 14.0700
Distributive Education 04.0000	Steno/Clerical Lab 14.9800
Finance and Credit 04.0400	Supervisory and Administration 14.0800
Finance and Financial Management and Services 52.0800	Typing and Related Occupation 14.0900
General Office Clerical 14.0300	

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2. If teacher is endorsed in CTE only, they cannot be placed in any classroom other than one that is state approved CTE.
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4. If instruction of a CTE program is provided at the postsecondary institution no Annual Career Authorization is required.

# COMPLETE LIST OF STATE-RECOGNIZED

## SECONDARY CAREER AND TECHNICAL EDUCATION (CTE) PROGRAM CIP CODES

### By Federal Career Cluster and Federal Classification of Instructional Program (CIP) Code

Updated June 2022

Current and Historical CIP Area Endorsements that Can Teach

CTE teachers must be appropriately certificated with the CIP code to teach CTE and/or related career pathway courses.

## INFORMATION TECHNOLOGY CLUSTER

### 11.0901 COMPUTER SYSTEMS NETWORKING AND TELECOMMUNICATIONS

**Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:**

Accounting and Computing 14.0100  
Business Administration Management and Operations 52.0299  
Business Machine Repair 47.0102  
Business Services 07.0999  
Business Services and Technology 52.9999  
Business, Management and Administration 52.9994  
Clerical & Sec Lab 14.9900  
Clerical Lab 14.9700  
Data Processing/Business 07.0301  
Distributive Education 04.0000  
Finance and Credit 04.0400  
Finance and Financial Management and Services 52.0800  
General Office Clerical 14.0300

Information Technology 11.1000  
Information Communication 14.0400  
Insurance 52.1701  
Marketing Education 08.0708  
Marketing, Sales and Service 52.1999  
Marketing, Sales and Services 08.0700  
Office 14.0000  
Secretarial Programs 07.0601  
Steno/Clerical 14.0700  
Steno/Clerical Lab 14.9800  
Supervisory and Administration 14.0800  
Typing and Related Occupation 14.0900

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## SECONDARY CAREER AND TECHNICAL EDUCATION (CTE) PROGRAM CIP CODES

### By Federal Career Cluster and Federal Classification of Instructional Program (CIP) Code

Updated June 2022

Current and Historical CIP Area Endorsements that Can Teach

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## INFORMATION TECHNOLOGY CLUSTER

### 11.1001 SYSTEMS ADMINISTRATION/ADMINISTRATOR

Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:

Accounting and Computing 14.0100	Information Technology 11.1000
Business Administration Management and Operations 52.0299	Information Communication 14.0400
Business Machine Repair 47.0102	Insurance 52.1701
Business Services 07.0999	Marketing Education 08.0708
Business Services and Technology 52.9999	Marketing, Sales and Service 52.1999
Business, Management and Administration 52.9994	Marketing, Sales and Services 08.0700
Clerical & Sec Lab 14.9900	Office 14.0000
Clerical Lab 14.9700	Secretarial Programs 07.0601
Data Processing/Business 07.0301	Steno/Clerical 14.0700
Distributive Education 04.0000	Steno/Clerical Lab 14.9800
Finance and Credit 04.0400	Supervisory and Administration 14.0800
Finance and Financial Management and Services 52.0800	Typing and Related Occupation 14.0900
General Office Clerical 14.0300	

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## SECONDARY CAREER AND TECHNICAL EDUCATION (CTE) PROGRAM CIP CODES

### By Federal Career Cluster and Federal Classification of Instructional Program (CIP) Code

Updated June 2022

Current and Historical CIP Area Endorsements that Can Teach

CTE teachers must be appropriately certificated with the CIP code to teach CTE and/or related career pathway courses.

### INFORMATION TECHNOLOGY CLUSTER

#### 11.1003 COMPUTER AND INFORMATION SYSTEMS SECURITY/INFORMATION ASSURANCE

Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:

Accounting and Computing 14.0100  
Business Administration Management and Operations 52.0299  
Business Machine Repair 47.0102  
Business Services 07.0999  
Business Services and Technology 52.9999  
Business, Management and Administration 52.9994  
Clerical & Sec Lab 14.9900  
Clerical Lab 14.9700  
Data Processing/Business 07.0301  
Distributive Education 04.0000  
Finance and Credit 04.0400  
Finance and Financial Management and Services 52.0800  
General Office Clerical 14.0300

Information Technology 11.1000  
Information Communication 14.0400  
Insurance 52.1701  
Marketing Education 08.0708  
Marketing, Sales and Service 52.1999  
Marketing, Sales and Services 08.0700  
Office 14.0000  
Secretarial Programs 07.0601  
Steno/Clerical 14.0700  
Steno/Clerical Lab 14.9800  
Supervisory and Administration 14.0800  
Typing and Related Occupation 14.0900

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### SECONDARY CAREER AND TECHNICAL EDUCATION (CTE) PROGRAM CIP CODES

#### By Federal Career Cluster and Federal Classification of Instructional Program (CIP) Code

*Updated June 2022*

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### LAW, PUBLIC SAFETY, CORRECTIONS AND SECURITY CLUSTER

#### 43.0100 PUBLIC SAFETY/PROTECTIVE SERVICES

**Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:**

Fireman 17.2801  
Law Enforcement Training 54.0107  
Public Safety/Protective Services 43.0100  
Public Service Occupation 17.2800

If an appropriately certified teacher is not available, an Annual Career Authorization may be appropriate. Experience in CIP area must be within the 10 years prior to the date of the application. See [Annual Career Authorization \(michigan.gov\)](https://www.michigan.gov/ece/0,4570,7-323_1293_1292_1297_1296,00.html) and [CTE Recent and Relevant Experience Requirements \(michigan.gov\)](https://www.michigan.gov/ece/0,4570,7-323_1293_1292_1297_1296,00.html) for more information.

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## SECONDARY CAREER AND TECHNICAL EDUCATION (CTE) PROGRAM CIP CODES

### By Federal Career Cluster and Federal Classification of Instructional Program (CIP) Code

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CTE teachers must be appropriately certificated with the CIP code to teach CTE and/or related career pathway courses.

### MANUFACTURING CLUSTER

#### 47.0101 ELECTRICAL/ELECTRONICS EQUIPMENT INSTALLATION AND REPAIR

State of Michigan license, if applicable, required to be up to date and on file.

Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:

Appliance Repair 17.0200  
Electric Power Generation Plants 17.3201  
Electrical Appliances 17.0201  
Electrical, Electronics and Comm Engineer 14.1001  
Electrical/Electronics Equipment Installation and Repair 47.0101  
Electricity 17.1002  
Electro-Mechanical Tech 15.0403  
Electro-Mechanical Tech 47.0199  
Electronics Occupations 17.1500  
Lineman 17.1402  
Watch Repair 47.0408  
Watchmaking and Repair 17.2102

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# COMPLETE LIST OF STATE-RECOGNIZED

## SECONDARY CAREER AND TECHNICAL EDUCATION (CTE) PROGRAM CIP CODES

### By Federal Career Cluster and Federal Classification of Instructional Program (CIP) Code

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## MANUFACTURING CLUSTER

### 48.0501 MACHINE TOOL OPERATION/MACHINE SHOP

Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:

Drafting and Design Technology/Architecture 15.1301  
Engineering Technology 15.0000  
Foundry 48.5020  
Machine Shop 17.2302  
Machine Shop 17.2303  
Machine Tool Operation/Machine Shop 48.0501  
Machine Tool Technology/Machinist 48.0501  
Manufacturing Cluster 48.0599  
Manufacturing Technology 48.9999  
Materials Support 14.0500

Mechanical Drafting 15.1306  
Mechatronics 14.4201  
Metal Patternmaking 17.2309  
Metal Trades 48.0506  
Metal Trades/Combined 17.2304  
Metallurgy 17.2400  
Metalworking 17.2300  
Precision Production Trades General 48.0000  
Sheet Metal 17.2305  
Tool and Die Making 17.2307

If an appropriately certified teacher is not available, an Annual Career Authorization may be appropriate. Experience in CIP area must be within the 10 years prior to the date of the application. See [Annual Career Authorization \(michigan.gov\)](https://www.michigan.gov/annual-career-authorization) and [CTE Recent and Relevant Experience Requirements \(michigan.gov\)](https://www.michigan.gov/cte-recent-and-relevant-experience-requirements) for more information.

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## SECONDARY CAREER AND TECHNICAL EDUCATION (CTE) PROGRAM CIP CODES

### By Federal Career Cluster and Federal Classification of Instructional Program (CIP) Code

*Updated June 2022*

Current and Historical CIP Area Endorsements that Can Teach

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## MANUFACTURING CLUSTER

### 48.0508 Welding, Brazing and Soldering

**Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:**

Welding, Brazing and Soldering 48.0508

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# **COMPLETE LIST OF STATE-RECOGNIZED**

## **SECONDARY CAREER AND TECHNICAL EDUCATION (CTE) PROGRAM CIP CODES**

### **By Federal Career Cluster and Federal Classification of Instructional Program (CIP) Code**

*Updated June 2022*

Current and Historical CIP Area Endorsements that Can Teach

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## **MANUFACTURING CLUSTER**

### **48.0701 WOODWORKING GENERAL**

**Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:**

- Carpentry 17.1001
- Construction and Maintenance 17.1000
- Construction Trades 46.0000
- Construction Trades, Other 46.9999
- Millwork and Cabinetmaking 17.3601
- Woodworking General 48.0701

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## SECONDARY CAREER AND TECHNICAL EDUCATION (CTE) PROGRAM CIP CODES

### By Federal Career Cluster and Federal Classification of Instructional Program (CIP) Code

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### MARKETING CLUSTER

#### 52.1999 SPECIALIZED MERCHANDISING, SALES, AND MARKETING OPERATIONS, OTHER

Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:

Accounting and Computing 14.0100  
Advertising Services 04.0100  
Business Administration Management and Operations 52.0299  
Business Machine Repair 47.0102  
Business Services 07.0999  
Business Services and Technology 52.9999  
Business, Management and Administration 52.9994  
Clerical and Sec Lab 14.9900  
Clerical Lab 14.9700  
Data Processing/Business 07.0301  
Distributive Education 04.0000  
Finance and Credit 04.0400  
Finance and Financial Management Services 52.0800  
Food Distribution 04.0600  
General Merchandise 04.0800

General Office Clerical 14.0300  
Information Communication 14.0400  
Information Technology 11.1000  
Insurance 52.1701  
Marketing Education 08.0708  
Marketing, Sales and Services 52.1999  
Marketing, Sales and Services 08.0700  
Office 14.0000  
Secretarial Programs 07.0601  
Steno/Clerical 14.0700  
Steno/Clerical Lab 14.9800  
Stock Clerk 14.0504  
Supervisory and Administration 14.0800  
Typing and Related Occupation 14.0900

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## SECONDARY CAREER AND TECHNICAL EDUCATION (CTE) PROGRAM CIP CODES

### By Federal Career Cluster and Federal Classification of Instructional Program (CIP) Code

Updated June 2022

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## SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS CLUSTER

### 14.4201 MECHATRONICS

**Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:**

Architectural Drafting CAD 15.1303	Engineering Technology 15.0000
Architectural Drafting 17.1308	Industrial Production 15.0612
Drafting and Design Technology/Architectural 15.1301	Machine Shop 17.2302
Drafting 48.0101	Machine Shop 17.2303
Electrical/Electronics Equipment Installation and Repair General 47.0101	Machine Tool Technology/Machinist 48.0501
Electrical/Electronics Maintenance and Repair Technology, Other 47.0199	Manufacturing Cluster 48.0599
Electro-Mechanical Technology 15.0403	Mechanical Drafting 15.1306
	Mechatronics 14.4201

### TEACHERS CANDIDATES WITH THE FOLLOWING CIPS MUST ALSO HOLD A VALID STANDARD/PROFESSIONAL/CONTINUING CERTIFICATE WITH IX, TX, OR TE

Blueprint Reader 17.0500	Electronics 17.1002
Electrical and Power Transmission Installation 46.0301	Surveying Engineer 14.3801
Electrical, Electronics, and Comm Engineer 14.1001	

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### By Federal Career Cluster and Federal Classification of Instructional Program (CIP) Code

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## SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS CLUSTER

### 15.0000 ENGINEERING TECHNOLOGY

Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:

Architectural Drafting CAD 15.1303	Engineering Technology 15.0000
Architectural Drafting 17.1308	Machine Shop 17.2302
Drafting and Design Technology/Architectural 15.1301	Machine Shop 17.2303
Drafting 48.0101	Machine Tool Technology/Machinist 48.0501
Electrical and Power Transmission Installation 46.0301	Mechanical Drafting 15.1306
Electrical/Electronics Equipment Installation and Repair General 47.0101	Mechatronics 14.4201
Electrical/Electronics Maintenance and Repair Technology, Other 47.0199	Surveying Engineer 14.3801

### TEACHERS CANDIDATES WITH THE FOLLOWING CIPS MUST ALSO HOLD A VALID STANDARD/PROFESSIONAL/CONTINUING CERTIFICATE WITH IX, TX, OR TE

Blueprint Reader 17.0500	Electronics 17.1002
Electrical, Electronics, and Comm Engineer 14.1001	Industrial Production 15.0612

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Updated June 2022

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## SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS CLUSTER

### 15.1306 MECHANICAL DRAFTING

Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:

Architectural Drafting CAD 15.1303  
Architectural Drafting 17.1308  
Drafting 48.0101  
Drafting and Design Technology 15.1301  
Engineering Technology 15.0000  
Machine Shop 17.2302

Machine Shop 17.2303  
Machine Tool Technology/Machinist 48.0501  
Manufacturing Cluster 48.0599  
Mechanical Drafting 15.1306  
Mechatronics 14.4201

### TEACHERS CANDIDATES WITH THE FOLLOWING CIPS MUST ALSO HOLD A VALID STANDARD/PROFESSIONAL/CONTINUING CERTIFICATE WITH IX, TX, OR TE

Blueprint Reader 17.0500  
Electrical and Power Transmission Installation 46.0301  
Electrical, Electronics, and Comm Engineer 14.1001  
Electrical/Electronics Equipment Installation and Repair  
General 47.0101

Electrical/Electronics Maintenance and Repair Technology  
Other 47.0199  
Electro-Mechanical Technology 15.0403  
Electronics 17.1002  
Industrial Production 15.0612  
Surveying Engineer 14.3801

If an appropriately certified teacher is not available, an Annual Career Authorization may be appropriate. Experience in CIP area must be within the 10 years prior to the date of the application. See [Annual Career Authorization \(michigan.gov\)](https://www.michigan.gov/annual-career-authorization) and [CTE Recent and Relevant Experience Requirements \(michigan.gov\)](https://www.michigan.gov/cte-recent-and-relevant-experience-requirements) for more information.

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## SECONDARY CAREER AND TECHNICAL EDUCATION (CTE) PROGRAM CIP CODES

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### TRANSPORTATION, DISTRIBUTION, AND LOGISTICS CLUSTER

#### 47.0399 HEAVY INDUSTRIAL EQUIPMENT MAINTENANCE TECHNOLOGIES

State of Michigan license, if applicable required to be up to date and on file.

Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:

Heavy Industrial Equipment Maintenance Technologies 47.0399  
Heavy Equipment 17.1003  
Hydraulics and Pneumatics 47.0401  
Industrial 17.1401  
Industrial Electronics 17.1502  
Industrial Equipment Repair 47.0301  
Industrial Production Technologies 15.0699  
Industrial Production Technologies/Technician 15.0612  
Transportation Services and Technology 47.9999

If an appropriately certified teacher is not available, an Annual Career Authorization may be appropriate. Experience in CIP area must be within the 10 years prior to the date of the application. See [Annual Career Authorization \(michigan.gov\)](https://www.michigan.gov/annual-career-authorization) and [CTE Recent and Relevant Experience Requirements \(michigan.gov\)](https://www.michigan.gov/cte-recent-and-relevant-experience-requirements) for more information.

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4. If instruction of a CTE program is provided at the postsecondary institution no Annual Career Authorization is required.

# COMPLETE LIST OF STATE-RECOGNIZED

## SECONDARY CAREER AND TECHNICAL EDUCATION (CTE) PROGRAM CIP CODES

### By Federal Career Cluster and Federal Classification of Instructional Program (CIP) Code

*Updated June 2022*

Current and Historical CIP Area Endorsements that Can Teach

CTE teachers must be appropriately certificated with the CIP code to teach CTE and/or related career pathway courses.

### TRANSPORTATION, DISTRIBUTION, AND LOGISTICS CLUSTER

#### 47.0603 COLLISION REPAIR TECHNICIAN (ASE CERTIFIED)

**Instructor must hold Automotive Service Excellence (ASE) certification in the areas they teach.**

Note: ASE was formerly NATEF.

**Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:**

Auto Body Repair 47.0683

Body and Fender 17.0301

Collision Repair Technician (ASE/NATEF Certified) 47.0603

If an appropriately certified teacher is not available, an Annual Career Authorization may be appropriate. Experience in CIP area must be within the 10 years prior to the date of the application. See [Annual Career Authorization \(michigan.gov\)](https://www.michigan.gov/annual-career-authorization) and [CTE Recent and Relevant Experience Requirements \(michigan.gov\)](https://www.michigan.gov/cte-recent-and-relevant-experience-requirements) for more information.

1. CTE certification or Annual Career Authorization is required for all state approved CTE programs.
2. If teacher is endorsed in CTE only, they cannot be placed in any classroom other than one that is state approved CTE.
3. If instruction of a CTE program is provided by a local business or postsecondary institution, on school property, an Annual Career Authorization is required for that instructor.
4. If instruction of a CTE program is provided at the postsecondary institution no Annual Career Authorization is required.



# COMPLETE LIST OF STATE-RECOGNIZED

## SECONDARY CAREER AND TECHNICAL EDUCATION (CTE) PROGRAM CIP CODES

### By Federal Career Cluster and Federal Classification of Instructional Program (CIP) Code

Updated June 2022

Current and Historical CIP Area Endorsements that Can Teach

CTE teachers must be appropriately certificated with the CIP code to teach CTE and/or related career pathway courses.

## TRANSPORTATION, DISTRIBUTION, AND LOGISTICS CLUSTER

### 47.0604 AUTOMOBILE TECHNICIAN (ASE CERTIFIED)

**Instructor must hold Automotive Service Excellence (ASE) certification in the areas they teach.**

Note: ASE was formerly NATEF

**Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:**

Automobile Technician 47.0604  
Auto Mechanics 47.0684  
Automotive 04.0300  
Mechanics 17.0302  
Mechanics Cluster 47.0699  
Transportation Services and Technology 47.9999

If an appropriately certified teacher is not available, an Annual Career Authorization may be appropriate. Experience in CIP area must be within the 10 years prior to the date of the application. See [Annual Career Authorization \(michigan.gov\)](https://www.michigan.gov/annual-career-authorization) and [CTE Recent and Relevant Experience Requirements \(michigan.gov\)](https://www.michigan.gov/cte-recent-and-relevant-experience-requirements) for more information.

1. CTE certification or Annual Career Authorization is required for all state approved CTE programs.
2. If teacher is endorsed in CTE only, they cannot be placed in any classroom other than one that is state approved CTE.
3. If instruction of a CTE program is provided by a local business or postsecondary institution, on school property, an Annual Career Authorization is required for that instructor.
4. If instruction of a CTE program is provided at the postsecondary institution no Annual Career Authorization is required.

# COMPLETE LIST OF STATE-RECOGNIZED

## SECONDARY CAREER AND TECHNICAL EDUCATION (CTE) PROGRAM CIP CODES

### By Federal Career Cluster and Federal Classification of Instructional Program (CIP) Code

*Updated June 2022*

Current and Historical CIP Area Endorsements that Can Teach

CTE teachers must be appropriately certificated with the CIP code to teach CTE and/or related career pathway courses.

### **TRANSPORTATION, DISTRIBUTION, AND LOGISTICS CLUSTER**

#### **47.0606 SMALL ENGINE AND RELATED EQUIPMENT REPAIR**

**Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:**

- Marine Maintenance 47.0616
- Mechanics 17.0302
- Mechanics Cluster 47.0699
- Small Engine and Related Equipment Repair 47.0606

If an appropriately certified teacher is not available, an Annual Career Authorization may be appropriate. Experience in CIP area must be within the 10 years prior to the date of the application. See [Annual Career Authorization \(michigan.gov\)](https://www.michigan.gov/annual-career-authorization) and [CTE Recent and Relevant Experience Requirements \(michigan.gov\)](https://www.michigan.gov/cte-recent-and-relevant-experience-requirements) for more information.

1. CTE certification or Annual Career Authorization is required for all state approved CTE programs.
2. If teacher is endorsed in CTE only, they cannot be placed in any classroom other than one that is state approved CTE.
3. If instruction of a CTE program is provided by a local business or postsecondary institution, on school property, an Annual Career Authorization is required for that instructor.
4. If instruction of a CTE program is provided at the postsecondary institution no Annual Career Authorization is required.

# COMPLETE LIST OF STATE-RECOGNIZED

## SECONDARY CAREER AND TECHNICAL EDUCATION (CTE) PROGRAM CIP CODES

### By Federal Career Cluster and Federal Classification of Instructional Program (CIP) Code

*Updated June 2022*

Current and Historical CIP Area Endorsements that Can Teach

CTE teachers must be appropriately certificated with the CIP code to teach CTE and/or related career pathway courses.

## TRANSPORTATION, DISTRIBUTION, AND LOGISTICS CLUSTER

### 47.0607 AIRFRAME TECHNOLOGY

**FAA License must be on file.**

**Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:**

- Aircraft Maintenance 17.0401
- Aircraft Mechanics 47.0602
- Airframe Technology 47.0607
- Transportation Services and Technology 47.9999

If an appropriately certified teacher is not available, an Annual Career Authorization may be appropriate. Experience in CIP area must be within the 10 years prior to the date of the application. See [Annual Career Authorization \(michigan.gov\)](https://www.michigan.gov/annual-career-authorization) and [CTE Recent and Relevant Experience Requirements \(michigan.gov\)](https://www.michigan.gov/cte-recent-and-relevant-experience-requirements) for more information.

1. CTE certification or Annual Career Authorization is required for all state approved CTE programs.
2. If teacher is endorsed in CTE only, they cannot be placed in any classroom other than one that is state approved CTE.
3. If instruction of a CTE program is provided by a local business or postsecondary institution, on school property, an Annual Career Authorization is required for that instructor.
4. If instruction of a CTE program is provided at the postsecondary institution no Annual Career Authorization is required.

# COMPLETE LIST OF STATE-RECOGNIZED

## SECONDARY CAREER AND TECHNICAL EDUCATION (CTE) PROGRAM CIP CODES

### By Federal Career Cluster and Federal Classification of Instructional Program (CIP) Code

*Updated June 2022*

Current and Historical CIP Area Endorsements that Can Teach

CTE teachers must be appropriately certificated with the CIP code to teach CTE and/or related career pathway courses.

### TRANSPORTATION, DISTRIBUTION, AND LOGISTICS CLUSTER

#### 47.0608 POWER PLANT TECHNOLOGY (AIRCRAFT)

**FAA License must be on file.**

**Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:**

- Aircraft Maintenance 17.0401
- Aircraft Mechanics 47.0602
- Aircraft Operations 17.0402
- Power Plant Technology (Aircraft) 47.0608

If an appropriately certified teacher is not available, an Annual Career Authorization may be appropriate. Experience in CIP area must be within the 10 years prior to the date of the application. See [Annual Career Authorization \(michigan.gov\)](https://www.michigan.gov/education/0,4570,7-293_14317_14318_14319_14320_14321_14322_14323_14324_14325_14326_14327_14328_14329_14330_14331_14332_14333_14334_14335_14336_14337_14338_14339_14340_14341_14342_14343_14344_14345_14346_14347_14348_14349_14350_14351_14352_14353_14354_14355_14356_14357_14358_14359_14360_14361_14362_14363_14364_14365_14366_14367_14368_14369_14370_14371_14372_14373_14374_14375_14376_14377_14378_14379_14380_14381_14382_14383_14384_14385_14386_14387_14388_14389_14390_14391_14392_14393_14394_14395_14396_14397_14398_14399_14400_14401_14402_14403_14404_14405_14406_14407_14408_14409_14410_14411_14412_14413_14414_14415_14416_14417_14418_14419_14420_14421_14422_14423_14424_14425_14426_14427_14428_14429_14430_14431_14432_14433_14434_14435_14436_14437_14438_14439_14440_14441_14442_14443_14444_14445_14446_14447_14448_14449_14450_14451_14452_14453_14454_14455_14456_14457_14458_14459_14460_14461_14462_14463_14464_14465_14466_14467_14468_14469_14470_14471_14472_14473_14474_14475_14476_14477_14478_14479_14480_14481_14482_14483_14484_14485_14486_14487_14488_14489_14490_14491_14492_14493_14494_14495_14496_14497_14498_14499_14500_14501_14502_14503_14504_14505_14506_14507_14508_14509_14510_14511_14512_14513_14514_14515_14516_14517_14518_14519_14520_14521_14522_14523_14524_14525_14526_14527_14528_14529_14530_14531_14532_14533_14534_14535_14536_14537_14538_14539_14540_14541_14542_14543_14544_14545_14546_14547_14548_14549_14550_14551_14552_14553_14554_14555_14556_14557_14558_14559_14560_14561_14562_14563_14564_14565_14566_14567_14568_14569_14570_14571_14572_14573_14574_14575_14576_14577_14578_14579_14580_14581_14582_14583_14584_14585_14586_14587_14588_14589_14590_14591_14592_14593_14594_14595_14596_14597_14598_14599_14600_14601_14602_14603_14604_14605_14606_14607_14608_14609_14610_14611_14612_14613_14614_14615_14616_14617_14618_14619_14620_14621_14622_14623_14624_14625_14626_14627_14628_14629_14630_14631_14632_14633_14634_14635_14636_14637_14638_14639_14640_14641_14642_14643_14644_14645_14646_14647_14648_14649_14650_14651_14652_14653_14654_14655_14656_14657_14658_14659_14660_14661_14662_14663_14664_14665_14666_14667_14668_14669_14670_14671_14672_14673_14674_14675_14676_14677_14678_14679_14680_14681_14682_14683_14684_14685_14686_14687_14688_14689_14690_14691_14692_14693_14694_14695_14696_14697_14698_14699_14700_14701_14702_14703_14704_14705_14706_14707_14708_14709_14710_14711_14712_14713_14714_14715_14716_14717_14718_14719_14720_14721_14722_14723_14724_14725_14726_14727_14728_14729_14730_14731_14732_14733_14734_14735_14736_14737_14738_14739_14740_14741_14742_14743_14744_14745_14746_14747_14748_14749_14750_14751_14752_14753_14754_14755_14756_14757_14758_14759_14760_14761_14762_14763_14764_14765_14766_14767_14768_14769_14770_14771_14772_14773_14774_14775_14776_14777_14778_14779_14780_14781_14782_14783_14784_14785_14786_14787_14788_14789_14790_14791_14792_14793_14794_14795_14796_14797_14798_14799_14800_14801_14802_14803_14804_14805_14806_14807_14808_14809_14810_14811_14812_14813_14814_14815_14816_14817_14818_14819_14820_14821_14822_14823_14824_14825_14826_14827_14828_14829_14830_14831_14832_14833_14834_14835_14836_14837_14838_14839_14840_14841_14842_14843_14844_14845_14846_14847_14848_14849_14850_14851_14852_14853_14854_14855_14856_14857_14858_14859_14860_14861_14862_14863_14864_14865_14866_14867_14868_14869_14870_14871_14872_14873_14874_14875_14876_14877_14878_14879_14880_14881_14882_14883_14884_14885_14886_14887_14888_14889_14890_14891_14892_14893_14894_14895_14896_14897_14898_14899_14900_14901_14902_14903_14904_14905_14906_14907_14908_14909_14910_14911_14912_14913_14914_14915_14916_14917_14918_14919_14920_14921_14922_14923_14924_14925_14926_14927_14928_14929_14930_14931_14932_14933_14934_14935_14936_14937_14938_14939_14940_14941_14942_14943_14944_14945_14946_14947_14948_14949_14950_14951_14952_14953_14954_14955_14956_14957_14958_14959_14960_14961_14962_14963_14964_14965_14966_14967_14968_14969_14970_14971_14972_14973_14974_14975_14976_14977_14978_14979_14980_14981_14982_14983_14984_14985_14986_14987_14988_14989_14990_14991_14992_14993_14994_14995_14996_14997_14998_14999_15000) and [CTE Recent and Relevant Experience Requirements \(michigan.gov\)](https://www.michigan.gov/education/0,4570,7-293_14317_14318_14319_14320_14321_14322_14323_14324_14325_14326_14327_14328_14329_14330_14331_14332_14333_14334_14335_14336_14337_14338_14339_14340_14341_14342_14343_14344_14345_14346_14347_14348_14349_14350_14351_14352_14353_14354_14355_14356_14357_14358_14359_14360_14361_14362_14363_14364_14365_14366_14367_14368_14369_14370_14371_14372_14373_14374_14375_14376_14377_14378_14379_14380_14381_14382_14383_14384_14385_14386_14387_14388_14389_14390_14391_14392_14393_14394_14395_14396_14397_14398_14399_14400_14401_14402_14403_14404_14405_14406_14407_14408_14409_14410_14411_14412_14413_14414_14415_14416_14417_14418_14419_14420_14421_14422_14423_14424_14425_14426_14427_14428_14429_14430_14431_14432_14433_14434_14435_14436_14437_14438_14439_14440_14441_14442_14443_14444_14445_14446_14447_14448_14449_14450_14451_14452_14453_14454_14455_14456_14457_14458_14459_14460_14461_14462_14463_14464_14465_14466_14467_14468_14469_14470_14471_14472_14473_14474_14475_14476_14477_14478_14479_14480_14481_14482_14483_14484_14485_14486_14487_14488_14489_14490_14491_14492_14493_14494_14495_14496_14497_14498_14499_14500_14501_14502_14503_14504_14505_14506_14507_14508_14509_14510_14511_14512_14513_14514_14515_14516_14517_14518_14519_14520_14521_14522_14523_14524_14525_14526_14527_14528_14529_14530_14531_14532_14533_14534_14535_14536_14537_14538_14539_14540_14541_14542_14543_14544_14545_14546_14547_14548_14549_14550_14551_14552_14553_14554_14555_14556_14557_14558_14559_14560_14561_14562_14563_14564_14565_14566_14567_14568_14569_14570_14571_14572_14573_14574_14575_14576_14577_14578_14579_14580_14581_14582_14583_14584_14585_14586_14587_14588_14589_14590_14591_14592_14593_14594_14595_14596_14597_14598_14599_14600_14601_14602_14603_14604_14605_14606_14607_14608_14609_14610_14611_14612_14613_14614_14615_14616_14617_14618_14619_14620_14621_14622_14623_14624_14625_14626_14627_14628_14629_14630_14631_14632_14633_14634_14635_14636_14637_14638_14639_14640_14641_14642_14643_14644_14645_14646_14647_14648_14649_14650_14651_14652_14653_14654_14655_14656_14657_14658_14659_14660_14661_14662_14663_14664_14665_14666_14667_14668_14669_14670_14671_14672_14673_14674_14675_14676_14677_14678_14679_14680_14681_14682_14683_14684_14685_14686_14687_14688_14689_14690_14691_14692_14693_14694_14695_14696_14697_14698_14699_14700_14701_14702_14703_14704_14705_14706_14707_14708_14709_14710_14711_14712_14713_14714_14715_14716_14717_14718_14719_14720_14721_14722_14723_14724_14725_14726_14727_14728_14729_14730_14731_14732_14733_14734_14735_14736_14737_14738_14739_14740_14741_14742_14743_14744_14745_14746_14747_14748_14749_14750_14751_14752_14753_14754_14755_14756_14757_14758_14759_14760_14761_14762_14763_14764_14765_14766_14767_14768_14769_14770_14771_14772_14773_14774_14775_14776_14777_14778_14779_14780_14781_14782_14783_14784_14785_14786_14787_14788_14789_14790_14791_14792_14793_14794_14795_14796_14797_14798_14799_14800_14801_14802_14803_14804_14805_14806_14807_14808_14809_14810_14811_14812_14813_14814_14815_14816_14817_14818_14819_14820_14821_14822_14823_14824_14825_14826_14827_14828_14829_14830_14831_14832_14833_14834_14835_14836_14837_14838_14839_14840_14841_14842_14843_14844_14845_14846_14847_14848_14849_14850_14851_14852_14853_14854_14855_14856_14857_14858_14859_14860_14861_14862_14863_14864_14865_14866_14867_14868_14869_14870_14871_14872_14873_14874_14875_14876_14877_14878_14879_14880_14881_14882_14883_14884_14885_14886_14887_14888_14889_14890_14891_14892_14893_14894_14895_14896_14897_14898_14899_14900_14901_14902_14903_14904_14905_14906_14907_14908_14909_14910_14911_14912_14913_14914_14915_14916_14917_14918_14919_14920_14921_14922_14923_14924_14925_14926_14927_14928_14929_14930_14931_14932_14933_14934_14935_14936_14937_14938_14939_14940_14941_14942_14943_14944_14945_14946_14947_14948_14949_14950_14951_14952_14953_14954_14955_14956_14957_14958_14959_14960_14961_14962_14963_14964_14965_14966_14967_14968_14969_14970_14971_14972_14973_14974_14975_14976_14977_14978_14979_14980_14981_14982_14983_14984_14985_14986_14987_14988_14989_14990_14991_14992_14993_14994_14995_14996_14997_14998_14999_15000) for more information.

1. CTE certification or Annual Career Authorization is required for all state approved CTE programs.
2. If teacher is endorsed in CTE only, they cannot be placed in any classroom other than one that is state approved CTE.
3. If instruction of a CTE program is provided by a local business or postsecondary institution, on school property, an Annual Career Authorization is required for that instructor.
4. If instruction of a CTE program is provided at the postsecondary institution no Annual Career Authorization is required.

# COMPLETE LIST OF STATE-RECOGNIZED

## SECONDARY CAREER AND TECHNICAL EDUCATION (CTE) PROGRAM CIP CODES

### By Federal Career Cluster and Federal Classification of Instructional Program (CIP) Code

*Updated June 2022*

Current and Historical CIP Area Endorsements that Can Teach

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## TRANSPORTATION, DISTRIBUTION, AND LOGISTICS CLUSTER

### 47.0609 AVIONICS MAINTENANCE TECHNOLOGY

**FAA License must be on file.**

**Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:**

Avionics Maintenance Technology 47.0609

Aviation Operations 17.0400

If an appropriately certified teacher is not available, an Annual Career Authorization may be appropriate. Experience in CIP area must be within the 10 years prior to the date of the application. See [Annual Career Authorization \(michigan.gov\)](https://www.michigan.gov/annual-career-authorization) and [CTE Recent and Relevant Experience Requirements \(michigan.gov\)](https://www.michigan.gov/recent-relevant-experience-requirements) for more information.

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# COMPLETE LIST OF STATE-RECOGNIZED

## SECONDARY CAREER AND TECHNICAL EDUCATION (CTE) PROGRAM CIP CODES

### By Federal Career Cluster and Federal Classification of Instructional Program (CIP) Code

Updated June 2022

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### TRANSPORTATION, DISTRIBUTION, AND LOGISTICS CLUSTER

#### 47.0613 MEDIUM/HEAVY TRUCK TECHNICIAN (ASE CERTIFIED)

**Instructor must hold Automotive Service Excellence (ASE) certification in the areas they teach.**

Note: ASE was formerly NATEF.

**Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:**

Diesel Mechanic 17.1200

Medium/Heavy Truck Tech 47.0605

Medium/Heavy Truck Technician (ASE/NATEF Certified) 47.0613

If an appropriately certified teacher is not available, an Annual Career Authorization may be appropriate. Experience in CIP area must be within the 10 years prior to the date of the application. See [Annual Career Authorization \(michigan.gov\)](https://www.michigan.gov/annual-career-authorization) and [CTE Recent and Relevant Experience Requirements \(michigan.gov\)](https://www.michigan.gov/recent-relevant-experience-requirements) for more information.

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## SECONDARY CAREER AND TECHNICAL EDUCATION (CTE) PROGRAM CIP CODES

### By Federal Career Cluster and Federal Classification of Instructional Program (CIP) Code

Updated June 2022

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CTE teachers must be appropriately certificated with the CIP code to teach CTE and/or related career pathway courses.

## TRANSPORTATION, DISTRIBUTION, AND LOGISTICS CLUSTER

### 47.0616 MARINE MAINTENANCE

**Not available for new CTE application.**

**Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:**

Marine Maintenance 47.0616

Marine Mechanics 17.2200

Seamanship 17.0801

Ship and Boat/Operation and Maintenance 17.0802

If an appropriately certified teacher is not available, an Annual Career Authorization may be appropriate. Experience in CIP area must be within the 10 years prior to the date of the application. See [Annual Career Authorization \(michigan.gov\)](https://www.michigan.gov/annual-career-authorization) and [CTE Recent and Relevant Experience Requirements \(michigan.gov\)](https://www.michigan.gov/cte-recent-and-relevant-experience-requirements) for more information.

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## COMPLETE LIST OF STATE-RECOGNIZED

### SECONDARY CAREER AND TECHNICAL EDUCATION (CTE) PROGRAM CIP CODES

#### By Federal Career Cluster and Federal Classification of Instructional Program (CIP) Code

*Updated June 2022*

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### TRANSPORTATION, DISTRIBUTION, AND LOGISTICS CLUSTER

#### 49.0101 AERONAUTICS/AVIATION/AEROSPACE SCIENCE AND TECHNOLOGY, GENERAL (Commonly referred to as General Aviation-Drones)

##### Highly Recommended: Part 107-Remote Pilot Certificate

Per FAA requirement, the instructor must have the Part 107-Remote Pilot Certificate for outdoor flight instruction.

**Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:**

Aeronautics/Aviation Aerospace Science and Technology 49.0101  
Airline/Commercial/Professional Pilot and Flight Crew 49.0102  
Aircraft Maintenance 17.0401  
Aircraft Mechanics 47.0602  
Aircraft Operations 17.0402

If an appropriately certified teacher is not available, an Annual Career Authorization may be appropriate. Experience in CIP area must be within the 10 years prior to the date of the application. See [Annual Career Authorization \(michigan.gov\)](https://www.michigan.gov/annual-career-authorization) and [CTE Recent and Relevant Experience Requirements \(michigan.gov\)](https://www.michigan.gov/recent-relevant-experience-requirements) for more information.

1. CTE certification or Annual Career Authorization is required for all state approved CTE programs.
2. If teacher is endorsed in CTE only, they cannot be placed in any classroom other than one that is state approved CTE.
3. If instruction of a CTE program is provided by a local business or postsecondary institution, on school property, an Annual Career Authorization is required for that instructor.
4. If instruction of a CTE program is provided at the postsecondary institution no Annual Career Authorization is required.



**COMPLETE LIST OF STATE-RECOGNIZED  
SECONDARY CAREER AND TECHNICAL EDUCATION (CTE) PROGRAM CIP CODES  
By Federal Career Cluster and Federal Classification of Instructional Program (CIP)  
Code**

*Updated June 2022*

Current and Historical CIP Area Endorsements that Can Teach

CTE teachers must be appropriately certificated with the CIP code to teach CTE and/or related career pathway courses.

**TRANSPORTATION, DISTRIBUTION, AND LOGISTICS CLUSTER**

**49.0102 AIRLINE/COMMERCIAL/PROFESSIONAL PILOT AND FLIGHT CREW  
(Commonly referred to as Private Pilot)**

**Required: Current FAA Flight Instructor Certification or Current FAA Basic Ground Instructor Certification**

**Instructors with the following CIPs may teach this program – Standard/Professional/Continuing teaching certificate not required:**

Airline/Commercial/Professional Pilot and Flight Crew 49.0102  
Aeronautics/Aviation Aerospace Science and Technology, General 49.0101  
Aircraft Maintenance 17.0401  
Aircraft Mechanics 47.0602  
Aircraft Operations 17.0402

If an appropriately certified teacher is not available, an Annual Career Authorization may be appropriate. Experience in CIP area must be within the 10 years prior to the date of the application. See [Annual Career Authorization \(michigan.gov\)](https://www.michigan.gov/education/0,4570,7-293_14317_14318_14319_14320_14321_14322_14323_14324_14325_14326_14327_14328_14329_14330_14331_14332_14333_14334_14335_14336_14337_14338_14339_14340_14341_14342_14343_14344_14345_14346_14347_14348_14349_14350_14351_14352_14353_14354_14355_14356_14357_14358_14359_14360_14361_14362_14363_14364_14365_14366_14367_14368_14369_14370_14371_14372_14373_14374_14375_14376_14377_14378_14379_14380_14381_14382_14383_14384_14385_14386_14387_14388_14389_14390_14391_14392_14393_14394_14395_14396_14397_14398_14399_14400_14401_14402_14403_14404_14405_14406_14407_14408_14409_14410_14411_14412_14413_14414_14415_14416_14417_14418_14419_14420_14421_14422_14423_14424_14425_14426_14427_14428_14429_14430_14431_14432_14433_14434_14435_14436_14437_14438_14439_14440_14441_14442_14443_14444_14445_14446_14447_14448_14449_14450_14451_14452_14453_14454_14455_14456_14457_14458_14459_14460_14461_14462_14463_14464_14465_14466_14467_14468_14469_14470_14471_14472_14473_14474_14475_14476_14477_14478_14479_14480_14481_14482_14483_14484_14485_14486_14487_14488_14489_14490_14491_14492_14493_14494_14495_14496_14497_14498_14499_14500_14501_14502_14503_14504_14505_14506_14507_14508_14509_14510_14511_14512_14513_14514_14515_14516_14517_14518_14519_14520_14521_14522_14523_14524_14525_14526_14527_14528_14529_14530_14531_14532_14533_14534_14535_14536_14537_14538_14539_14540_14541_14542_14543_14544_14545_14546_14547_14548_14549_14550_14551_14552_14553_14554_14555_14556_14557_14558_14559_14560_14561_14562_14563_14564_14565_14566_14567_14568_14569_14570_14571_14572_14573_14574_14575_14576_14577_14578_14579_14580_14581_14582_14583_14584_14585_14586_14587_14588_14589_14590_14591_14592_14593_14594_14595_14596_14597_14598_14599_14600_14601_14602_14603_14604_14605_14606_14607_14608_14609_14610_14611_14612_14613_14614_14615_14616_14617_14618_14619_14620_14621_14622_14623_14624_14625_14626_14627_14628_14629_14630_14631_14632_14633_14634_14635_14636_14637_14638_14639_14640_14641_14642_14643_14644_14645_14646_14647_14648_14649_14650_14651_14652_14653_14654_14655_14656_14657_14658_14659_14660_14661_14662_14663_14664_14665_14666_14667_14668_14669_14670_14671_14672_14673_14674_14675_14676_14677_14678_14679_14680_14681_14682_14683_14684_14685_14686_14687_14688_14689_14690_14691_14692_14693_14694_14695_14696_14697_14698_14699_14700_14701_14702_14703_14704_14705_14706_14707_14708_14709_14710_14711_14712_14713_14714_14715_14716_14717_14718_14719_14720_14721_14722_14723_14724_14725_14726_14727_14728_14729_14730_14731_14732_14733_14734_14735_14736_14737_14738_14739_14740_14741_14742_14743_14744_14745_14746_14747_14748_14749_14750_14751_14752_14753_14754_14755_14756_14757_14758_14759_14760_14761_14762_14763_14764_14765_14766_14767_14768_14769_14770_14771_14772_14773_14774_14775_14776_14777_14778_14779_14780_14781_14782_14783_14784_14785_14786_14787_14788_14789_14790_14791_14792_14793_14794_14795_14796_14797_14798_14799_14800_14801_14802_14803_14804_14805_14806_14807_14808_14809_14810_14811_14812_14813_14814_14815_14816_14817_14818_14819_14820_14821_14822_14823_14824_14825_14826_14827_14828_14829_14830_14831_14832_14833_14834_14835_14836_14837_14838_14839_14840_14841_14842_14843_14844_14845_14846_14847_14848_14849_14850_14851_14852_14853_14854_14855_14856_14857_14858_14859_14860_14861_14862_14863_14864_14865_14866_14867_14868_14869_14870_14871_14872_14873_14874_14875_14876_14877_14878_14879_14880_14881_14882_14883_14884_14885_14886_14887_14888_14889_14890_14891_14892_14893_14894_14895_14896_14897_14898_14899_14900_14901_14902_14903_14904_14905_14906_14907_14908_14909_14910_14911_14912_14913_14914_14915_14916_14917_14918_14919_14920_14921_14922_14923_14924_14925_14926_14927_14928_14929_14930_14931_14932_14933_14934_14935_14936_14937_14938_14939_14940_14941_14942_14943_14944_14945_14946_14947_14948_14949_14950_14951_14952_14953_14954_14955_14956_14957_14958_14959_14960_14961_14962_14963_14964_14965_14966_14967_14968_14969_14970_14971_14972_14973_14974_14975_14976_14977_14978_14979_14980_14981_14982_14983_14984_14985_14986_14987_14988_14989_14990_14991_14992_14993_14994_14995_14996_14997_14998_14999_15000) and [CTE Recent and Relevant Experience Requirements \(michigan.gov\)](https://www.michigan.gov/education/0,4570,7-293_14317_14318_14319_14320_14321_14322_14323_14324_14325_14326_14327_14328_14329_14330_14331_14332_14333_14334_14335_14336_14337_14338_14339_14340_14341_14342_14343_14344_14345_14346_14347_14348_14349_14350_14351_14352_14353_14354_14355_14356_14357_14358_14359_14360_14361_14362_14363_14364_14365_14366_14367_14368_14369_14370_14371_14372_14373_14374_14375_14376_14377_14378_14379_14380_14381_14382_14383_14384_14385_14386_14387_14388_14389_14390_14391_14392_14393_14394_14395_14396_14397_14398_14399_14400_14401_14402_14403_14404_14405_14406_14407_14408_14409_14410_14411_14412_14413_14414_14415_14416_14417_14418_14419_14420_14421_14422_14423_14424_14425_14426_14427_14428_14429_14430_14431_14432_14433_14434_14435_14436_14437_14438_14439_14440_14441_14442_14443_14444_14445_14446_14447_14448_14449_14450_14451_14452_14453_14454_14455_14456_14457_14458_14459_14460_14461_14462_14463_14464_14465_14466_14467_14468_14469_14470_14471_14472_14473_14474_14475_14476_14477_14478_14479_14480_14481_14482_14483_14484_14485_14486_14487_14488_14489_14490_14491_14492_14493_14494_14495_14496_14497_14498_14499_14500_14501_14502_14503_14504_14505_14506_14507_14508_14509_14510_14511_14512_14513_14514_14515_14516_14517_14518_14519_14520_14521_14522_14523_14524_14525_14526_14527_14528_14529_14530_14531_14532_14533_14534_14535_14536_14537_14538_14539_14540_14541_14542_14543_14544_14545_14546_14547_14548_14549_14550_14551_14552_14553_14554_14555_14556_14557_14558_14559_14560_14561_14562_14563_14564_14565_14566_14567_14568_14569_14570_14571_14572_14573_14574_14575_14576_14577_14578_14579_14580_14581_14582_14583_14584_14585_14586_14587_14588_14589_14590_14591_14592_14593_14594_14595_14596_14597_14598_14599_14600_14601_14602_14603_14604_14605_14606_14607_14608_14609_14610_14611_14612_14613_14614_14615_14616_14617_14618_14619_14620_14621_14622_14623_14624_14625_14626_14627_14628_14629_14630_14631_14632_14633_14634_14635_14636_14637_14638_14639_14640_14641_14642_14643_14644_14645_14646_14647_14648_14649_14650_14651_14652_14653_14654_14655_14656_14657_14658_14659_14660_14661_14662_14663_14664_14665_14666_14667_14668_14669_14670_14671_14672_14673_14674_14675_14676_14677_14678_14679_14680_14681_14682_14683_14684_14685_14686_14687_14688_14689_14690_14691_14692_14693_14694_14695_14696_14697_14698_14699_14700_14701_14702_14703_14704_14705_14706_14707_14708_14709_14710_14711_14712_14713_14714_14715_14716_14717_14718_14719_14720_14721_14722_14723_14724_14725_14726_14727_14728_14729_14730_14731_14732_14733_14734_14735_14736_14737_14738_14739_14740_14741_14742_14743_14744_14745_14746_14747_14748_14749_14750_14751_14752_14753_14754_14755_14756_14757_14758_14759_14760_14761_14762_14763_14764_14765_14766_14767_14768_14769_14770_14771_14772_14773_14774_14775_14776_14777_14778_14779_14780_14781_14782_14783_14784_14785_14786_14787_14788_14789_14790_14791_14792_14793_14794_14795_14796_14797_14798_14799_14800_14801_14802_14803_14804_14805_14806_14807_14808_14809_14810_14811_14812_14813_14814_14815_14816_14817_14818_14819_14820_14821_14822_14823_14824_14825_14826_14827_14828_14829_14830_14831_14832_14833_14834_14835_14836_14837_14838_14839_14840_14841_14842_14843_14844_14845_14846_14847_14848_14849_14850_14851_14852_14853_14854_14855_14856_14857_14858_14859_14860_14861_14862_14863_14864_14865_14866_14867_14868_14869_14870_14871_14872_14873_14874_14875_14876_14877_14878_14879_14880_14881_14882_14883_14884_14885_14886_14887_14888_14889_14890_14891_14892_14893_14894_14895_14896_14897_14898_14899_14900_14901_14902_14903_14904_14905_14906_14907_14908_14909_14910_14911_14912_14913_14914_14915_14916_14917_14918_14919_14920_14921_14922_14923_14924_14925_14926_14927_14928_14929_14930_14931_14932_14933_14934_14935_14936_14937_14938_14939_14940_14941_14942_14943_14944_14945_14946_14947_14948_14949_14950_14951_14952_14953_14954_14955_14956_14957_14958_14959_14960_14961_14962_14963_14964_14965_14966_14967_14968_14969_14970_14971_14972_14973_14974_14975_14976_14977_14978_14979_14980_14981_14982_14983_14984_14985_14986_14987_14988_14989_14990_14991_14992_14993_14994_14995_14996_14997_14998_14999_15000) for more information.

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