

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

*Updated June 2020*

Current and Historical CIP Area Endorsements that Can Teach

If local program is not Michigan State Approved CTE, teachers must hold a valid standard/professional/continuing teaching certificate with appropriate endorsement. Refer to [Quick Reference Courses that can be Taught](#)

**AGRICULTURE, FOOD & 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 & NATURAL RESOURCES CLUSTER**

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

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

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  
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Agricultural Structure/Conveniences 01.0302

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**AGRICULTURE, FOOD & 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 & NATURAL RESOURCES CLUSTER**

**01.0903 ANIMAL HEALTH & 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 & 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	Forestry 01.0700
Agriculture Science and Natural Resources 02.9999	Forests 01.0107
Agriculture, Agricultural Operations and Related	Natural Resources and Conservation 03.0000
Agriculture Production, General 01.0301	Sciences 01.0000
Environmental Health 07.0700	Soil Management 01.0303
	Wildlife 01.0604

**PLACEMENT OF TEACHER CANDIDATES WITH THE FOLLOWING CIPS  
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Fish Farm/Hatcheries 01.0607  
Water 01.0605  
Water Management 01.0304

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**AGRICULTURE, FOOD & NATURAL RESOURCES CLUSTER**

**26.1201 BIOTECHNOLOGY**

**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

Biotechnology 26.1201

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**ARCHITECTURE & CONSTRUCTION CLUSTER**

**15.1301 DRAFTING & DESIGN TECHNOLOGY/ARCHITECTURAL**

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

Architectural Drafting 17.1398

Blueprint Reader 17.0500

Drafting & 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

**TEACHER CANDIDATES WITH THE FOLLOWING CIPS MUST ALSO HOLD A VALID STANDARD/PROFESSIONAL/CONTINUING CERTIFICATE WITH IX, TX, or TE ENDORSEMENT**

Electrical and Power Transmission Installation 46.0301

Electrical, Electronics, & 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 & 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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**ARCHITECTURE & 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	Construction Trades 46.9901
Building & Home Maintenance & Services 20.0601	Dry Wall Installation 17.1008
Building Maintenance 46.0401	Foremanship 17.1700
Carpentry 17.1001	Hardware-Building Related 04.0900
Construction and Maintenance 17.1000	Masonry 17.1004
Construction Trades 46.0000	Roofing 17.1010

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**ARCHITECTURE & 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

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**ARCHITECTURE & 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

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**ARCHITECTURE & 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 & COMMUNICATIONS CLUSTER**

**10.0202 RADIO & 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 & 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 & 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 48.0299

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**ARTS A/V TECHNOLOGY & COMMUNICATIONS CLUSTER**

**50.0101 VISUAL & PERFORMING ARTS**

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

Communications 17.1501  
Drama/Theater Arts & Stage Craft 50.0599  
Visual & Performing Arts 50.0101  
Visual Comm. Technology 50.0401

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**ARTS A/V TECHNOLOGY & 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

Leatherworking 17.3400  
Painting and Decorating 17.1005  
Shoe Manufacturing 17.3401  
Tailoring 17.3300  
Textile Production 17.3302  
Upholstering 17.3500  
Window Display 17.0702

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**BUSINESS, MANAGEMENT & 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 Communication 14.0400
Business Administration Management & Operations 52.0299	Information Technology 11.1000
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 & 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 Services 52.0800	Typing and Related Occupation 14.0900
General Office Clerical 14.0300	

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**EDUCATION & TRAINING CLUSTER**

**13.0000 EDUCATION GENERAL**

**New teacher candidate must have at least 5 years of teaching experience and hold a valid Continuing/Professional/Standard secondary or elementary teaching certificate**

**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 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.

1. CTE certification or Annual Career Authorization is required for all state approved CTE programs. Age of credential will determine language on certificate.
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 post-secondary institution, on school property, an Annual Career Authorization is required for that instructor.
4. If instruction of a CTE program is provided at the post-secondary institution no Annual Career Authorization is required.

COMPLETE LIST OF STATE-RECOGNIZED  
SECONDARY CAREER AND TECHNICAL EDUCATION (CTE) PROGRAM CIP CODES  
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*Updated June 2020*

Current and Historical CIP Area Endorsements that Can Teach

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**ENERGY CLUSTER**

**46.0303 ELECTRIC LINEMAN**

**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 46.9901

Electric Lineman 46.0303

Electric Power Generation Plants 17.3201

Electrical and Power Transmission Installation 46.0301

Electrical Appliances 17.0201

Electrical, Electronics & 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.

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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.
3. If instruction of a CTE program is provided by a local business or post-secondary institution, on school property, an Annual Career Authorization is required for that instructor.
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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	Electricity 17.1002
Construction Trades 46.0000	Electro-Mechanical Tech 15.0403
Construction Trades 46.9901	Electro-Mechanical Tech 47.0199
Electric Lineman 46.0303	Electronics Occupations 17.1500
Electric Power Generation Plants 17.3201	Heating, Air Conditioning, Ventilation and Refrigeration 47.0201
Electrical and Power Transmission Installation 46.0301	Lineman 17.1402
Electrical Appliances 17.0201	Plumbing and Pipefitting 17.1007
Electrical, Electronics & Comm Engineer 14.1001	
Electrical/Electronics Equip. Installation and Repair 47.0101	

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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	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 & 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	

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.

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**FINANCE CLUSTER**

**52.1701 INSURANCE**

**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 & 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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**GOVERNMENT & PUBLIC ADMINISTRATION CLUSTER**

**28.0301 ARMY (JROTC)**

**Instructors must hold a Department of Defense Credential. Annual Authorization or CTE Certificate is not an option.**

1. CTE certification or Annual Career Authorization is required for all state approved CTE programs. Age of credential will determine language on certificate.
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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**HEALTH SCIENCE CLUSTER**

**26.0102 BIOTECHNOLOGY MEDICAL SERVICES**

**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.

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**HEALTH SCIENCE CLUSTER**

**51.0000 THERAPEUTIC SERVICES - 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	Medical Emergency Tech 07.0907
Dental Hygienist 07.0102	Nursing 07.0300
Dental Lab Technician 07.0103	Nursing Aide 07.0303
Dental Occupations 17.0100	Nursing Occupations 17.0600
General Health Occupations 07.9900	Occupational Preparation 09.0200
Health 07.000	Occupational Therapy 07.0401
Health Occupations Cluster 07.9802	Pharmacy Assistant 07.9803
Health Occupations Cluster 17.9900	Physical Therapy 07.0402
Medical Assisting 17.0503	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.

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**HEALTH SCIENCE CLUSTER**

**51.0707 HEALTH INFORMATICS**

**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

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**HEALTH SCIENCE CLUSTER**

**51.1000 DIAGNOSTIC SERVICES**

**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 & 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

Food Service Hospital 07.0908

Hotel and Lodging 04.1100

Quantity Food Operations 17.2900

Recreation 01.0602

Recreation and Tourism 04.1800

Meat Cutter 17.2903

Waiter/Waitress 17.2904

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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:**

Barbering 17.2601

Cosmetology 12.0400

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.

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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:**

Business Admin Management & Operations 52.0299

Business, Management & Administration 52.9994

Business Services and Technology 52.9999

Computer Programming/Programmer 11.0201

Data Processing/Business 07.0301

Distributive Education 04.0000

Information Communication 14.0400

Information Technology 11.1000

Marketing, Sales and Service 52.1999

Marketing Education 08.0708

Marketing, Sales and Services 08.0700

**TEACHER CANDIDATES WITH THE FOLLOWING CIPS MUST ALSO HOLD A VALID STANDARD/  
PROFESSIONAL/CONTINUING CERTIFICATE WITH A BUSINESS OR COMPUTER SCIENCE ENDORSEMENT**

Business Machine Repair 47.0102

Business Services 07.0999

Clerical & Sec Lab 14.9900

Clerical Lab 14.9700

General Office Clerical 14.0300

Office 14.0000

Secretarial Programs 07.0601

Steno/Clerical 14.0700

Steno/Clerical Lab 14.9800

Supervisory & Admin 14.0800

Typing & 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:**

Business Admin Management & Operations 52.0299  
Business, Management & Administration 52.9994  
Business Services and Technology 52.9999  
Data Processing/Business 07.0301  
Digital/Multimedia and Information Resources Design 11.0801  
Distributive Education 04.0000

Information Communication 14.0400  
Information Technology 11.1000  
Marketing, Sales and Service 52.1999  
Marketing Education 08.0708  
Marketing, Sales and Services 08.0700

**TEACHER CANDIDATES WITH THE FOLLOWING CIPS MUST ALSO HOLD A VALID STANDARD/  
PROFESSIONAL/CONTINUING CERTIFICATE WITH A BUSINESS OR COMPUTER SCIENCE ENDORSEMENT**

Business Machine Repair 47.0102  
Business Services 07.0999  
Clerical & Sec Lab 14.9900  
Clerical Lab 14.9700  
General Office Clerical 14.0300  
Office 14.0000

Secretarial Programs 07.0601  
Steno/Clerical 14.0700  
Steno/Clerical Lab 14.9800  
Supervisory & Admin 14.0800  
Typing & 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.

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**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:**

Business Admin Management & Operations 52.0299	Information Communication 14.0400
Business Services and Technology 52.9999	Information Technology 11.1000
Business, Management & Administration 52.9994	Marketing Education 08.0708
Computer Systems Networking and Telecommunications 11.0901	Marketing, Sales and Service 52.1999
Data Processing/Business 07.0301	Marketing, Sales and Services 08.0700
Distributive Education 04.0000	

**TEACHER CANDIDATES WITH THE FOLLOWING CIPS MUST ALSO HOLD A VALID STANDARD/  
PROFESSIONAL/CONTINUING CERTIFICATE WITH A BUSINESS OR COMPUTER SCIENCE ENDORSEMENT**

Business Machine Repair 47.0102	Secretarial Programs 07.0601
Business Services 07.0999	Steno/Clerical 14.0700
Clerical & Sec Lab 14.9900	Steno/Clerical Lab 14.9800
Clerical Lab 14.9700	Supervisory & Admin 14.0800
General Office Clerical 14.0300	Typing & Related Occupation 14.0900
Office 14.0000	

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.

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**INFORMATION TECHNOLOGY CLUSTER**

**11.1001 SYSTEMS ADMINISTRATOR/ADMINISTRATOR**

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

Business Admin Management & Operations 52.0299  
Business Services and Technology 52.9999  
Business, Management & Administration 52.9994  
Data Processing/Business 07.0301  
Distributive Education 04.0000

Information Communication 14.0400  
Information Technology 11.1000  
Marketing Education 08.0708  
Marketing, Sales and Service 52.1999  
Marketing, Sales and Services 08.0700  
Systems Administrator/Administrator 11.1001

**TEACHER CANDIDATES WITH THE FOLLOWING CIPS MUST ALSO HOLD A VALID STANDARD/  
PROFESSIONAL/CONTINUING CERTIFICATE WITH A BUSINESS OR COMPUTER SCIENCE ENDORSEMENT**

Business Machine Repair 47.0102  
Business Services 07.0999  
Clerical & Sec Lab 14.9900  
Clerical Lab 14.9700  
General Office Clerical 14.0300  
Office 14.0000

Secretarial Programs 07.0601  
Steno/Clerical 14.0700  
Steno/Clerical Lab 14.9800  
Supervisory & Admin 14.0800  
Typing & 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.

1. CTE certification or Annual Career Authorization is required for all state approved CTE programs. Age of credential will determine language on certificate.
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 post-secondary institution, on school property, an Annual Career Authorization is required for that instructor.
4. If instruction of a CTE program is provided at the post-secondary institution no Annual Career Authorization is required.

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Current and Historical CIP Area Endorsements that Can Teach

If local program is not Michigan State Approved CTE, teachers must hold a valid standard/professional/continuing teaching certificate with appropriate endorsement. Refer to [Quick Reference Courses that can be Taught](#)

**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:**

Business Admin Management & Operations 52.0299  
Business Services and Technology 52.9999  
Business, Management & Administration 52.9994  
Data Processing/Business 07.0301  
Distributive Education 04.0000  
Information Communication 14.0400

Information Technology 11.1000  
Marketing Education 08.0708  
Marketing, Sales and Service 52.1999  
Marketing, Sales and Services 08.0700  
Systems Administrator/Administrator 11.1001

**TEACHER CANDIDATES WITH THE FOLLOWING CIPS MUST ALSO HOLD A VALID STANDARD/  
PROFESSIONAL/CONTINUING CERTIFICATE WITH A BUSINESS OR COMPUTER SCIENCE ENDORSEMENT**

Business Machine Repair 47.0102  
Business Services 07.0999  
Clerical & Sec Lab 14.9900  
Clerical Lab 14.9700  
General Office Clerical 14.0300  
Office 14.0000

Secretarial Programs 07.0601  
Steno/Clerical 14.0700  
Steno/Clerical Lab 14.9800  
Supervisory & Admin 14.0800  
Typing & 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.

1. CTE certification or Annual Career Authorization is required for all state approved CTE programs. Age of credential will determine language on certificate.
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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**LAW, PUBLIC SAFETY, CORRECTIONS & 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 43.0107

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.

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**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 & 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

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.

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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.
3. If instruction of a CTE program is provided by a local business or post-secondary institution, on school property, an Annual Career Authorization is required for that instructor.
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Current and Historical CIP Area Endorsements that Can Teach

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**MANUFACTURING CLUSTER**

**47.0601 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.

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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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**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.

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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

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.

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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 17.100  
Construction Trades 46.0000  
Construction Trades 46.9901  
Millwork and Cabinetmaking 17.3601  
Woodworking General 48.0701

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**MARKETING CLUSTER**

**52.1999 MARKETING, SALES AND SERVICE**

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

Accounting and Computing 14.0100	General Office Clerical 14.0300
Advertising Services 04.0100	Information Communication 14.0400
Business Administration Management & Operations 52.0299	Information Technology 11.1000
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 Services 52.1999
Business, Management & 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	Stock Clerk 14.0504
Finance and Financial Management Services 52.0800	Supervisory and Administration 14.0800
Food Distribution 04.0600	Typing and Related Occupation 14.0900
General Merchandise 04.0800	

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

**TEACHER CANDIDATES WITH THE FOLLOWING CIPS MUST ALSO HOLD A VALID STANDARD/PROFESSIONAL/CONTINUING CERTIFICATE WITH IX, TX, or TE**

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

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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 17.1398	Engineering Technology 15.0000
Drafting and Design Technology/Architectural 15.1301	Surveying Engineer 14.3801
Drafting 48.0101	Machine Shop 17.2302
Electrical and Power Transmission Installation 46.0301	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	Mechanical Drafting 15.1306
	Mechatronics 14.4201

**TEACHER 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, & Comm Engineer 14.1001	Industrial Production 15.0612

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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 17.1398

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

**TEACHER 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, & 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.

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**TRANSPORTATION, DISTRIBUTION & 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 & 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.

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Current and Historical CIP Area Endorsements that Can Teach

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**TRANSPORTATION, DISTRIBUTION & LOGISTICS CLUSTER**

**47.0603 COLLISION REPAIR TECHNICIAN (NATEF CERTIFIED)**

**NATEF certification required to be up to date and on file - Instructor must hold ASE certification**

**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 (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.

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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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Current and Historical CIP Area Endorsements that Can Teach

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**TRANSPORTATION, DISTRIBUTION & LOGISTICS CLUSTER**

**47.0604 AUTOMOBILE TECHNICIAN (NATEF CERTIFIED)**

**NATEF certification required to be up to date and on file - Instructor must hold ASE certification**

**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 & 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.

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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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**TRANSPORTATION, DISTRIBUTION & LOGISTICS CLUSTER**

**47.0606 SMALL ENGINE & 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 & 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.

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**TRANSPORTATION, DISTRIBUTION & 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 & 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.

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

*Updated June 2020*

Current and Historical CIP Area Endorsements that Can Teach

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**TRANSPORTATION, DISTRIBUTION & 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

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**TRANSPORTATION, DISTRIBUTION & 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

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**TRANSPORTATION, DISTRIBUTION & LOGISTICS CLUSTER**

**47.0613 MEDIUM/HEAVY TRUCK TECHNICIAN (NATEF CERTIFIED)**

**NATEF certification required to be up to date and on file - Instructor must hold ASE certification**

**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 (NATEF Certified) 47.0613

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**TRANSPORTATION, DISTRIBUTION & LOGISTICS CLUSTER**

**49.0101 AERONAUTICS/AVIATION AEROSPACE SCIENCE & TECHNOLOGY**

**FAA License must be on file**

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

Aeronautics/Aviation Aerospace Science & Technology 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.

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*Updated June 2020*

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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 & Home Svcs 19.0699

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