

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

By Federal Career Cluster and Federal CIP Code

Updated March 2021

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 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

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 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	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 AND 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 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 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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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 46.9901
Dry Wall Installation 17.1008
Foremanship 17.1700
Hardware-Building Related 04.0900
Masonry 17.1004
Roofing 17.1010

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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

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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

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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 & 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 Comm. Technology 40.0401

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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 AND at least 5 years of teaching experience.
- 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 for preparation of new teacher candidates is no longer an option.

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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](#)

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 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.

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
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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	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 47.0302
Electrical and Power Transmission Installation 46.0301	Lineman 17.1402
Electrical Appliance 17.0301	Plumbing and Pipefitting 17.1007
Electrical, Electronics and Comm Engineer 14.1001	

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

52.0800 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 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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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	Insurance 52.1701
Business Administration Management and Operations 52.0299	Marketing Education 08.0708
Business Machine Repair 47.0102	Marketing, Sales and Service 52.1999
Business Services 07.0999	Marketing, Sales and Services 08.0700
Business Services and Technology 52.9999	Office 14.0000
Business, Management and Administration 52.9994	Secretarial Programs 07.0601
Clerical & Sec Lab 14.9900	Steno/Clerical 14.0700
Clerical Lab 14.9700	Steno/Clerical Lab 14.9800
Data Processing/Business 07.0301	Supervisory and Administration 14.0800
Distributive Education 04.0000	Typing and Related Occupation 14.0900
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	

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GOVERNMENT AND PUBLIC ADMINISTRATION CLUSTER

28.0301 ARMY (JROTC)

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

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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

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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

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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 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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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	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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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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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	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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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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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	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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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 CIP Code

Updated March 2021

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](#)

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.

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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

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

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.
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.
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Updated March 2021

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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](#)

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.

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.
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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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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](#)

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:

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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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.
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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](#)

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 46.9901
Millwork and Cabinetmaking 17.3601
Woodworking General 48.0701

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 postsecondary institution, on school property, an Annual Career Authorization is required for that instructor.
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Updated March 2021

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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
Advertising Services 04.0100
Business Administration Management and Operations 52.0299
Business Machine Repair 47.0102
Business Services 07.09999
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 04.800

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

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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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

**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	

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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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](#)

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

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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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 17.1308	Machine Shop 17.2303
Drafting 48.0101	Machine Tool Technology/Machinist 48.0501
Drafting and Design Technology 15.1301	Manufacturing Cluster 48.0599
Engineering Technology 15.0000	Mechanical Drafting 15.1306
Machine Shop 17.2302	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/Electronics Maintenance and Repair Technology Other 47.0199
Electrical and Power Transmission Installation 46.0301	Electro-Mechanical Technology 115.0403
Electrical, Electronics, and Comm Engineer 14.1001	Electronics 17.1002
Electrical/Electronics Equipment Installation and Repair General 47.0101	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.

1. CTE certification or Annual Career Authorization is required for all state approved CTE programs.
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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.

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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 AND 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.

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.
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Updated March 2021

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](#)

TRANSPORTATION, DISTRIBUTION AND 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 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.

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.
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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.

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.
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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](#)

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.

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.
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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.

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.
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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.

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TRANSPORTATION, DISTRIBUTION AND 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

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.
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 CIP Code

Updated March 2021

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](#)

TRANSPORTATION, DISTRIBUTION AND LOGISTICS CLUSTER

49.0101 AERONAUTICS/AVIATION AEROSPACE SCIENCE AND 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 and 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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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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