

**Michigan Department of Education  
Office of Career and Technical Education  
Teacher Certification Requirements by Career Cluster and CIP Code  
2016-2017**

IOC: Interim Occupational Certificate in Related CIP Code

OEC: Occupational Education Certificate

**Agriculture, Food & Natural Resources**

01.0000	Agriculture, Agricultural Operations and Related Sciences	IOC/OEC or Prov/Prof with HX & VA + IOC/OEC
01.0601	Applied Horticulture and Horticultural Operations	IOC/OEC or Prov/Prof with HX & VA + IOC/OEC
01.0903	Animal Health & Veterinary Sciences	IOC/OEC or Prov/Prof with HX & VA + IOC/OEC
03.0000	Natural Resources and Conservation	IOC/OEC or Prov/Prof with HX & VA + IOC/OEC
26.1201	Biotechnology	IOC/OEC or Prov/Prof with HX & VA + IOC/OEC

**Architecture & Construction**

15.1301	Drafting & Design Technology/Architectural	IOC/OEC or Prov/Prof with VT + IOC/OEC
19.0605	Home Furnishings Equipment Installers and Consultants (Not available for New Program Applications)	IOC/OEC or Prov/Prof with VT + IOC/OEC
46.0000	Construction Trades	IOC/OEC or Prov/Prof with VT + IOC/OEC
46.0301	Electrical and Power Transmission Installation	IOC/OEC or Prov/Prof with VT + IOC/OEC
46.0503	Plumbing Technology	IOC/OEC
47.0201	Heating, Air Conditioning, Ventilation and Refrigeration	IOC/OEC or Prov/Prof with VT + IOC/OEC

**Arts, A/V Technology & Communications**

10.0202	Radio & Television Broadcasting Technology	IOC/OEC or Prov/Prof with VT + IOC/OEC
10.0301	Graphics and Printing Technology and Communications	IOC/OEC or Prov/Prof with VT + IOC/OEC
19.0906	Fashion Design (Not available for New Program Applications)	IOC/OEC or Prov/Prof with VT + IOC/OEC
50.0101	Visual & Performing Arts	IOC/OEC or Prov/Prof with VT + IOC/OEC

**Business, Management & Administration**

52.0299	Business Administration Management and Operations	IOC/OEC or Prov/Prof with GQ and/or GX & VB + IOC/OEC
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## Education & Training

13.0000	Education General	Prof with VG + IOC/OEC
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## Energy

46.0303	Line Worker	IOC/OEC or Prov/Prof with TE + IOC
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## Family & Consumer Sciences (not a career cluster)

19.0000	Family and Consumer Sciences (Not available for New Program Applications)	Prov/Prof with KH & VH + IOC/OEC
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## Finance

52.0800	Finance and Financial Management Services	IOC/OEC or Prov/Prof with GQ and/or GX & VB + IOC/OEC
52.1701	Insurance	IOC/OEC or Prov/Prof with GQ and/or GX & VB + IOC/OEC

## Government & Public Administration

28.0301	Army (JROTC)	DOD
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## Health Science

26.0102	Biotechnology Medical Sciences	IOC/OEC or Prov/Prof with VS + IOC/OEC
51.0000	Therapeutic Services	IOC/OEC or Prov/Prof with VS + IOC/OEC
51.0707	Health Informatics	IOC/OEC or Prov/Prof with VS + IOC/OEC
51.1000	Diagnostic Services	IOC/OEC or Prov/Prof with VS + IOC/OEC

## Hospitality & Tourism

12.0500	Cooking and Related Culinary Arts, General	IOC/OEC or Prov/Prof with VZ or VH with Food Management + IOC/OEC
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## Human Services

12.0400	Cosmetology	IOC/OEC or Prov/Prof with VE + IOC/OEC
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## Information Technology

11.0201	Computer Programming/Programmer	IOC/OEC or Prov/Prof with GQ and/or GX & VB + IOC/OEC
11.0801	Digital/Multimedia and Information Resources Design	IOC/OEC or Prov/Prof with GQ and/or GX & VB + IOC/OEC
11.0901	Computer Systems Networking and Telecommunications	IOC/OEC or Prov/Prof with GQ and/or GX & VB + IOC/OEC
11.1001	System Administration/Administrator	IOC/OEC or Prov/Prof with GQ and/or GX & VB + IOC/OEC

## Law, Public Safety, Corrections & Security

43.0100	Public Safety/Protective Services	IOC/OEC or Prov/Prof with VF + IOC/OEC
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## Manufacturing

47.0101	Electrical/Electronics Equipment Installation and Repair General	IOC/OEC or Prov/Prof with VT + IOC/OEC
48.0501	Machine Tool Technology/Machinist	IOC/OEC or Prov/Prof with VT + IOC/OEC
48.0508	Welding, Brazing and Soldering	IOC/OEC or Prov/Prof with VT + IOC/OEC
48.0701	Woodworking General	IOC/OEC or Prov/Prof with VT + IOC/OEC

## Marketing

52.1999	Specialized Merchandising, Sales, and Marketing Operations, Other	IOC/OEC or Prov/Prof with GO & VM, GX & VM, GM & VM (VM formerly VD) + IOC/OEC
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## Science, Technology, Engineering and Mathematics

14.4201	Mechatronics	IOC/OEC
15.0000	Engineering Technology	IOC/OEC
15.1306	Mechanical Drafting	IOC/OEC or Prov/Prof with VT + IOC/OEC

## Transportation, Distribution & Logistics

47.0399	Heavy/Industrial Equipment Maintenance Technologies	IOC/OEC or Prov/Prof with VT + IOC/OEC
47.0603	Collision Repair Technician (ASE Certified)	IOC/OEC or Prov/Prof with VT + IOC/OEC
47.0604	Automobile Technician (ASE Certified)	IOC/OEC or Prov/Prof with VT + IOC/OEC
47.0606	Small Engine & Related Equipment Repair	IOC/OEC or Prov/Prof with VT + IOC/OEC
47.0607	Airframe Technology	IOC/OEC or Prov/Prof with VT + IOC/OEC
47.0608	Power Plant Technology (Aircraft)	IOC/OEC or Prov/Prof with VT + IOC/OEC
47.0609	Avionics Maintenance Technology	IOC/OEC or Prov/Prof with VT + IOC/OEC
47.0613	Medium/Heavy Truck Technician (ASE Certified)	IOC/OEC or Prov/Prof with VT + IOC/OEC
49.0101	Aeronautics/Aviation/Aerospace Science and Technology	IOC/OEC or Prov/Prof with VT + IOC/OEC

When placing certified teachers in state-approved CTE programs, districts must look at the occupational certificate to determine proper placement. V codes on general education certificates are indicators that the certificate holder also holds and IOC or OEC. V codes are not endorsements. For further clarification contact the Office of Professional Preparation Services at 517-373-3310.