

MDE and OCTE Website & Resources



Candace Vinson, Education Consultant Career Readiness Unit









CTE Program Overview

Four Components of a CTE Program





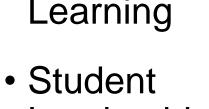


Four Components of a CTE Program

- Classroom Instruction
- Laboratory Learning
- Work-Based Learning
- Leadership









Four Components of a CTE Program

Students enrolled in state-approved secondary career and technical education (CTE) programs have an opportunity to acquire skills that prepare them for successful career entry, advancement, and/or continuing education. Each secondary state-approved program is required to integrate four key components:



Classroom Instruction: Integration of academic and technical skills to support core knowledge needs. Focused instruction, reinforcement, and additional depth on academic concepts that support technical

Laboratory Learning: Hands-on learning to develop technical skills. Simulation labs, projectbased learning and student skill demonstration.

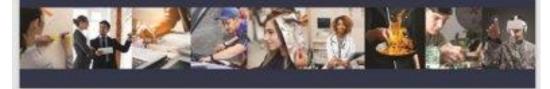


Work-Based Learning: Work-based learning opportunities to further develop and apply skills. Sustained interactions with employers in real workplace settings that foster first-hand engagement with tasks required of specific careers.

Student Leadership: Student leadership opportunities to support employability and Career Ready Practices. Intra-curricular activities that prepare students to become effective leaders; for example, participation in Career and Technical Student Organization's (CTSOs).



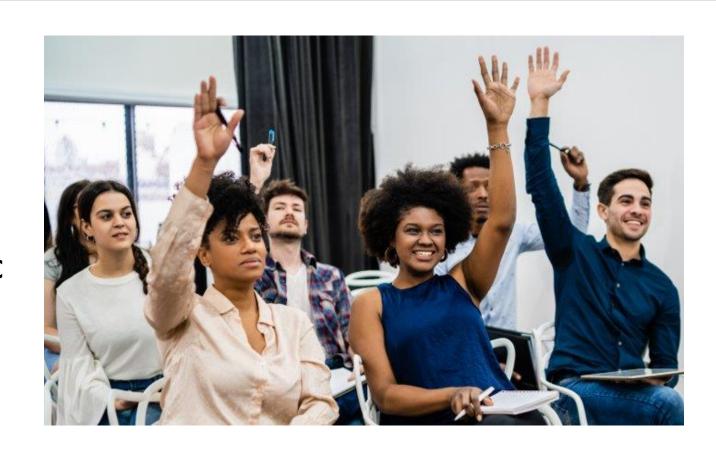






Classroom Instruction

- Academic Skills
 - Math
 - English
 - Science
- Technical Skills
 - Program Specific
- Career Ready Practices
 - Employability
 Skills







Choosing Curriculum for Programs

- Identify most important curriculum elements
- Consider multiple resources
- Review samples
- Review with advisory committee
- Consider a trial run

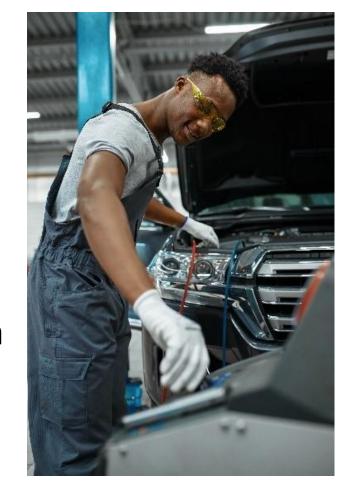






Laboratory Learning

- Hands-on
- Technical Skill Development
- Simulation Labs
- Project Based Learning
- Skill Demonstration











Replicating Business & Industry

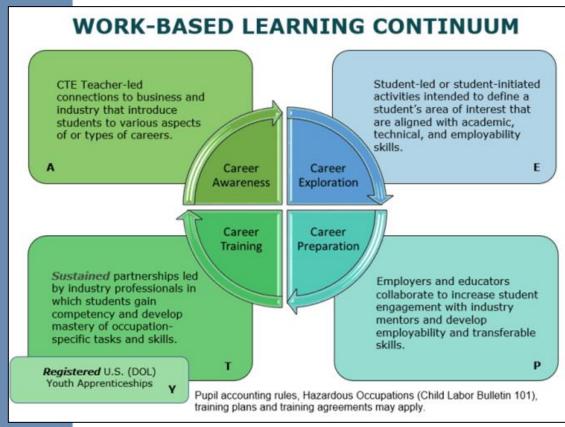


- Classrooms and labs
- Behaviors and processes
- Advisory Committee input
- Business tours and job shadows





Work-Based Learning



- Increases in intensity
- Includes sustained interactions with employers
- Incorporates real workplace settings
- Engages with business and industry
- Aligns to program standards





WBL Resources







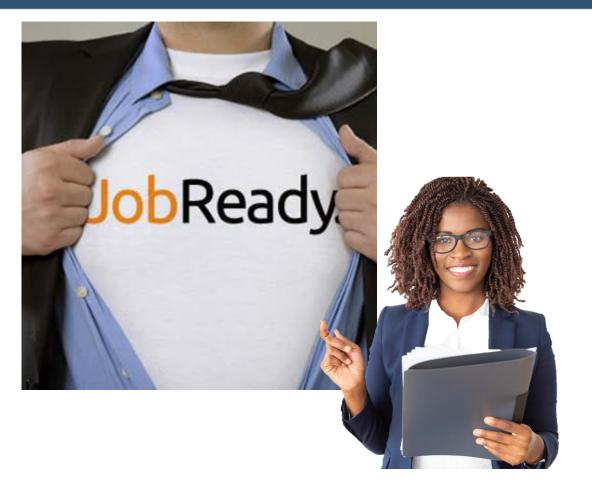
WBL MANUAL WBL TOOLKIT







Student Leadership



- Leadership Opportunities
- Career Ready Practices
- Employability Skills
- Career & Technical Student Organizations (CTSO)





Nested Leadership Model

Moving from "Me to We"







What questions do you have?

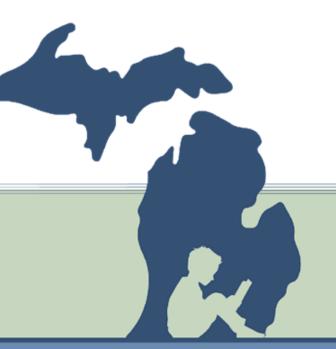








CIP Self-Review Overview



Office of Career and Technical Education Michigan Department of Education

Tom Knight, Education Consultant Career Readiness Unit Candace Vinson, Education Consultant Career Readiness Unit





MDE-CTE Portal Access



Starting **October 1, 2022** access to the CTE Portal will require a MILogin.

Create a MILogin for Third Party account and link to your MEIS account.

Do not GOOGLE to get to the MILogin page! Use the link provided.





MEMO #2022-026: Grants Electronic Monitoring Systems (GEMS) Transition from Michigan Education Information System (MEIS) to MILogin



CIP Self-Review: MDE-CTE Portal

Office of Career and Technical Education Quick Links: About Us Educators Data and Reports Memos Partners Students Home

CTE Educator Quick Links: CTE Administrators CTE Teachers CTE Events CTE Instructional Resources Early Middle

Career Development Resources Funding and Monitoring

Frequently Used Resources for Teachers



Four Components of a CTE **Program**



CTE Instructional Resources











- CIP Program Endorsements for CTE Instruction
- Instructions for Adding a User for the CIP Self-Review
- CIP Self-Review Administrator Review Guide
- CIP Self-Review Form
- C02 PD Log Template
- C03 Program Advisory Committee Meeting Agenda and Minutes Template
- C03 Program Advisory Committee Roster Template
- C04 Instructional Design Template
- C04 Safety Training
- C05 Work Based Learning Template
- C06 Student Leadership Template
- C07 Assurance doc to only replace room photos
- C08 Credentials Template



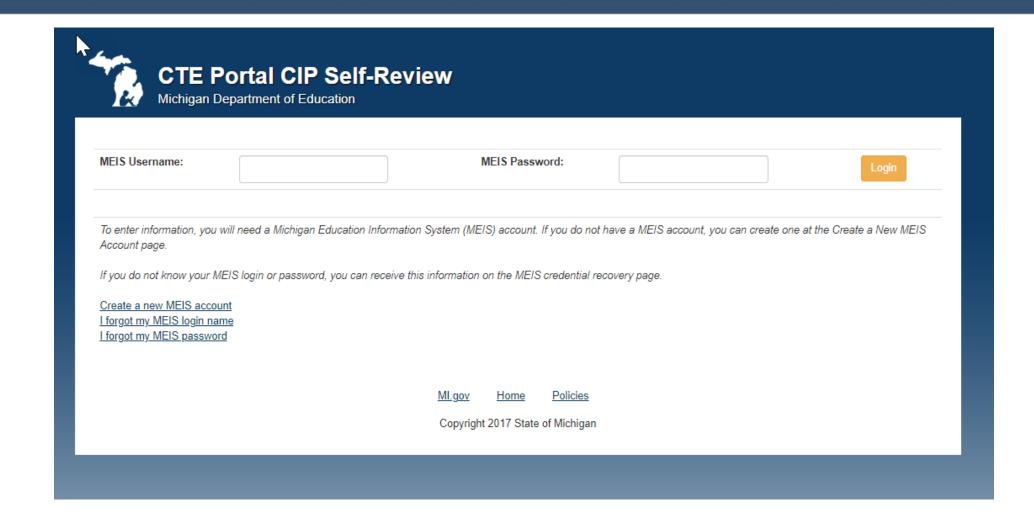
New CTE Program Application Tool Kit







CIP Self-Review-CTE Portal







CIP Self-Review Form

Classification of Instructional Programs Self-Review for Michigan Secondary Career and Technical Education State Approved Prog

The Classification of Instructional Programs (CIP) Self-Review is a tool developed to assist with Technical Rev Assistance and Compliance (TRAC) monitoring of Career and Technical Education (CTE) programs and to help programs determine focus areas for continuous program improvement.

MDE utilized the library of resources from the <u>High Quality CTE Program of Study</u> to support many areas in th Self-Review, located at https://www.acteonline.org/professional-development/high-quality-cte-tools/.

Administrator Responsibilities

Each Career Education Planning District (CEPD) administrator is required to review 20% of their CTE program year and each program must be reviewed at least once every five years. This process must be completed via MDE-CTE Portal www.michigan.gov/mde-cteportal by **June 30**th of each year. The sequence of the selected programs is at the discretion of the CEPD Administrator. There is no need to upload a list of the CEPD-selecte 20%. This information is recorded and reported within the MDE-CTE Portal.

Note: The Michigan Department of Education annually selects CTE programs to review during the TRAC cycle specific set of criteria. The selected programs may or may not be in the same 20% that the CEPD Administrat selected to review that year.

Teacher Responsibilities

Each CTE program teacher is responsible to update their MDE-CTE Portal profile page and annual industry-reliprofessional development. It is the lead CTE program teacher's annual responsibility to keep all CTE Program Number (PSN) evidences up to date in the <u>CIP Self-Review</u> at www.michigan.gov/mde-cteportal. Contact the appropriate <u>MDE program consultant</u> if you have any questions: https://www.michigan.gov/documents/mde/18_Career_Cluster_and_CIP_Codes_by_Consultant_578234_7.pdf.

Note: Prior to uploading, documents should be converted to PDF.

Revised August 2020 Pa



Classification of Instructional Programs Self-Review for Michigan Secondary Career and Technical Education State Approved Programs

C01 - Program Teacher Certification

Each teacher in the program must identify the type of appropriate CIP CTE certification. Upload PDF copies of actual credentials only in circumstances when credentials are not listed in MOECS records. Teachers may obtain their Michigan Online Educator Certification System (MOECS) record at: MOECS/PublicCredentialSearch.aspx

C01	Criteria	Evidence
	Certified teacher	Update name in MDE-CTE Portal profile to <u>exactly</u> match name on credentials. Teacher is appropriately certificated for CIP code. Note: Actual credential of MOECS printout may be requested on site if a match cannot be made electronically.
	District holds Annual Career Authorization (ACA)	Name in MDE-CTE Portal profile <u>exactly</u> matches name on credentials and ACA is current. Note: Actual credential of MOECS printout may be requested on site if a match cannot be made electronically.
	Postsecondary instructor	Postsecondary instructor teaching in a high school building must have an ACA. If teaching on the postsecondary campus, no ACA is required (identify college).
	Licensure (if applicable)	Copy of current professional state licensure (PDF)
	Industry Certification(s) (if applicable)	Copy of current industry certification (PDF)

Michigan Teacher Certification Administrative Code: R390.1105, Rule 5(2) PART 6. CTE ENDORSEMENTS, CTE CERTIFICATES, AND ANNUAL AUTHORIZATION

Michigan CTE Reimbursed Programs Administrative Code: R395.241, Rule 11(1)(c) R395.244, Rule 14(1)(b) R395.244, Rule 14(8)(a)

Revised August 2020 Page 2 of 9



What questions do you have?

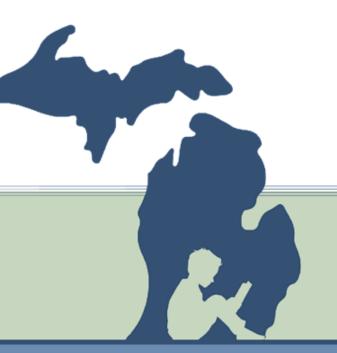








Introduction to CTE Tool Kits



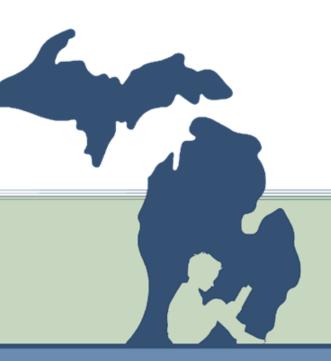
Office of Career and Technical Education Michigan Department of Education

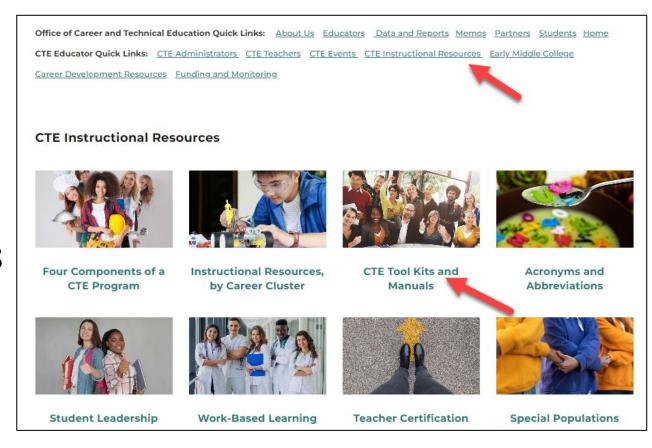
Mark Forbush, Education Consultant Career Readiness Unit Dorthy Switalski, Education Consultant Career Readiness Unit



Where to find the tool kit

- MDE-OCTE Website
- Instructional Resources
- CTE Tool Kits and Manuals









Career and Technical Education Teacher Tool Kit

2022-2023 Edition



Michigan Department of Education
Office of Career and Technical Education

Mission: To prepare students so they have the necessary academic, technical, and work behavior skills to enter, compete, and advance in education and their careers.





CTE Teacher Tool Kit

CTE Tool Kits and Manuals





CTE Teacher Tool Kit

CTE Program Advisory Tool Kit

New CTE Program Application Tool Kit









61b CTE EMC and CTE Dual Enrollment Tool Kit

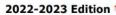
CTE Administrator Manual

Work-Based Learning Tool Kit

(Managing Your Risk)



Program Advisory Committee Tool Kit





Mission: To prepare students so they have the necessary academic, technical, and work behavior skills to enter, compete, and advance in education and their carreers





Program Advisory Tool Kit

CTE Tool Kits and Manuals







CTE Teacher Tool Kit

CTE Program Advisory Tool Kit

New CTE Program Application Tool Kit







61b CTE EMC and CTE Dual Enrollment Tool Kit

CTE Administrator Manual

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(Managing Your Risk)



Work-Based Learning Manual

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Embedded links for easy navigation

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Work-Based Learning (WBL)

Work-Based Learning is sustained and progressively intensive interactions with employers or community professionals in real workplace settings, to the extent practicable, or simulated environments at an educational institution that foster in-depth, first-hand engagement with the tasks, required of a given career field, that are aligned to curriculum, instruction, and Career and Technical Education (CTE) Program standards.



WBL Employer Resources

- WBL Myth vs. Fact At-A-Glance
- Getting Started Checklist

WBL Coordinator Manual

The Work Based Learning Toolkit, [Managing Your Bisk] has been developed to assist school district staff with consistent directions and procedures for designing and implementing appropriate solutions when students are placed in work site situations. WBL sample forms can be found here too, such as

- Sample In-District CTE & Transition Placement Agreement
- Sample CTE Training Agreement
- Sample Training Plan

Also, view Work-Based Learning Frequently Asked Questions (FAQs).





WBL CTE Teacher Resources

- Michigan Department of Education Work-Based Learning Manual
- CTE WBL Continuum Guide
- . CTE Virtual WBL Continuum Guide
- . Choose Your Own WBL Adventure
- WBL Examples

Work-Based Learning

CTE Tool Kits and Manuals



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CTE Teacher Tool Kit

CTE Program Advisory Tool Kit

New CTE Program Application Tool Kit



61b CTE EMC and CTE Dual Enrollment Tool Kit



CTE Administrator Manual



Work-Based Learning Tool Kit

(Managing Your Risk)



Work-Based Learning Manual





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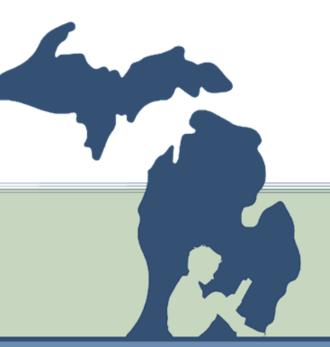








Perkins V Credentials Overview



Office of Career and Technical Education

Michigan Department of Education

Deb Miller, Supervisor Career Readiness Unit





State-Approved Credentials are . .

- A Perkins V Core Performance Indicator, Program Quality (5S1)
- Postsecondary Industry Recognized
- A measure for technical skills
- Used to gain employment or advancement within occupation

To adhere to the federal mandate for CTE, Strengthening Career and Technical Education for the 21st Century Act (Perkins V), Michigan chose the program quality measure—5S1 Core Performance Indicator of students obtaining a recognized postsecondary credential endorsed by employers.





Types of State-Approved Credentials



- Industry-Recognized Certificates
- Education Certificates
- Licenses
- Educational Degrees
- Certificates of Completion of an Apprenticeship

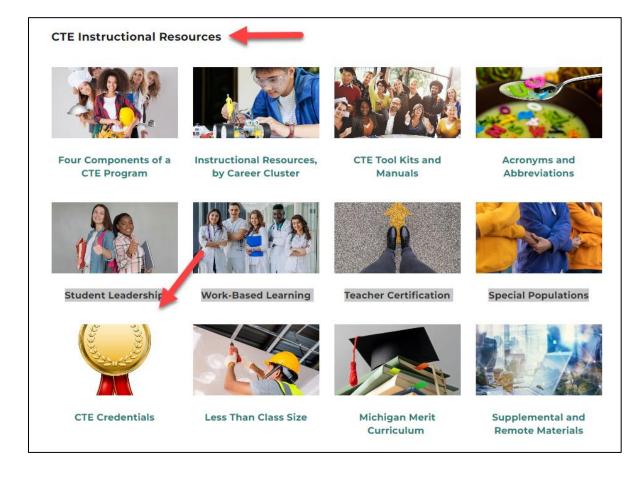




Where to Find State-Approved Credentials

Go to...

- MDE-OCTE Website
- Instructional Resources
- CTE Credentials







Credential Reporting

- Refer to CTE Credentials list found on the MDE/OCTE website on the CTE Instructional Resources page.
- Report <u>ALL</u> credentials earned in CTEIS
 - State-approved credentials
 - Supplemental credentials
- Any ONE state-approved credential required to count in the 5S1 numerator for CPI data.







Programs reporting by Perkins IV segments with state- approved credentials for 5S1

11.0901	Computer Syst Networking & Telecommunications
15.1301	Drafting/Design Technology
26.0102	Biotechnology Medical Sciences
43.0101	Public Safety/Protect Services
46.0303	Lineworker
47.0603	Collision Repair Technician (ASE Certified)
47.0613	Medium/Heavy Truck Technician (ASE Certified)
48.0508	Welding, Brazing/Soldering
51.0707	Health Informatics
51.1000	Diagnostic Services





Programs reporting state-approved credentials for 5S1 in 2021-2022

12.0400	Cosmetology
13.0000	Education General
46.0000	Construction Trades
46.0301	Elec/Power Trans Installer
47.0604	Automobile Technician (ASE Certified)
51.0000	Therapeutic Services
52.0299	Business Admin Mgt & Operations





Programs reporting state-approved credentials for 5S1 in 2022-2023

49.0101	Aero/Av/Aerospace Sci & Tech
49.0102	Airline/Commercial/Professional Pilot and Flight Crew
52.0901	Hospitality Administration/Management, General





Programs reporting state-approved credentials for 5S1 in 2023-2024

Computer Programming/Programmer
Computer and Information Systems Security/Information Assurance
Mechatronics
Public Safety/Protect Services
Welding, Brazing/Soldering
Finance & Financial Management Services
Marketing Sales and Services





Programs reporting state-approved credentials for 5S1 in 2024-2025

01.0000	Agriculture, Agricultural Operations and Related Sciences
01.0601	Applied Horticulture & Horticultural Operations
01.0903	Animal Health and Veterinary Science
03.0000	Natural Resources and Conservation
11.0901	Computer Syst Networking & Telecommunications
11.1001	Systems Administration/Administrator
12.0500	Cooking & Related Culinary Arts, General
48.0501	Machine Tool Technology/Machinist
48.0701	Woodworking General





What questions do you have?









Career Pathways Grant Curriculum Framework

Office of Career and Technical Education Michigan Department of Education

Celena Mills, Education Consultant Career Readiness Unit Dorthy Switalski, Education Consultant Career Readiness Unit





CPG Changes

Perkins IV

- GAP Analysis
- Instructional Design
- Reports by Segments

Perkins V

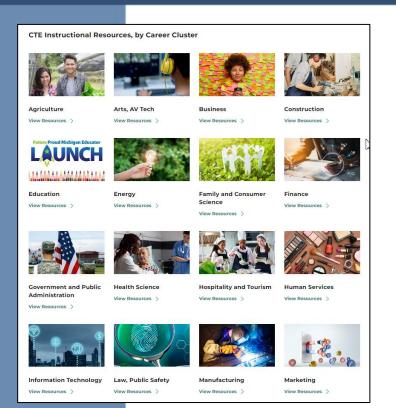
- No GAP Analysis
- CIP Overview Document
- CIP Specific Instructional Design
- Reports by Competencies





Which version is my program?

39



Health Science

- 51.0000 Health Services/Allied Health/Health Sciences, General CIP Overview and Instructional Design
- 26.0102 Biomedical Sciences General 2017
- 51.0707 Health Information/Medical Records Technology/Technician 2017
- 51.1000 Clinical/Medical Laboratory Science/Research and Allied Professions 2017
- EMT Student Assessment Requirements





Perkins V: Competency Statements (11 for Auto)

Supplementals	Brakes	Electrical and Electronic Systems	Automatic Transmissions, Transaxles, and Drivetrains
Demonstrate shop and personal safety skills as recognized by industry standards. A1	Demonstrate and understand the fundamentals of the braking system and related service information. B1	Demonstrate the knowledge of the fundamentals of electricity and automotive electrical systems. D1	Demonstrate an understanding of vehicle automatic transmissions, transaxles and drive train components and service information. F1
Demonstrate knowledge and skill in the use of automotive tools and equipment according to manufacturers recommendations. A2	Steering, Suspension and Alignment	Engine Repair	Manual Transmissions, Transaxles, and Drivetrains
Demonstrate automotive industry standards and shop policies regarding customer vehicles. A3	Demonstrate an understanding of vehicle steering and suspension components and service information. C1	Demonstrate the knowledge of engine repair and related service information. E1	Demonstrate an understanding of vehicle manual transmissions, transaxles and drive train components and service information. F2
		Engine Performance	Heating, Ventilation, and Air Conditioning (HVAC)
Orange Code = PCC Competency Code		Understand and obtain engine performance vehicle information. E2	Research and understand components and service information of HVAC systems. F3





Perkins IV: Segments

Classification of Instructional Program (CIP) Self-Review

artment of Education > Services > Career and Technical Education > Educators > CTE Teachers > CIP Self-Review

This document was designed to include all of the required evidence for the CTE Instructional Design and is recommended but not required. This template may be modified. Please confirm with your CEPD Director.

		CTE	In	strı	ıcti	iona	al I	Des	ign	1								
School:																		
PSN:																		
CIP Code:																		
Program:						Seg	men	ts										
Course Name	Teacher	Weeks Taught	Semester	Quarter	Trimester	1	2	3	4	5	6	7	8	9	10	11	12	Q
																		-
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CIP Self Review

The Classification of Instructional Programs (CIP) Self-Review is a tool developed to assign with Technical Review Assistance and Compliance (TRAC) monitoring of Career and Technical Education (CTE) programs and to help those programs determine focus areas for continuous program improvement. Program teachers must update the CIP Self Review via the MDE-CTE Portal each year.

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- C04 Instructional Design Template
- C04 Safety Training
- C05 Work Based Learning Template





Perkins V: Instructional Design Form

\frac{1}{2}						
-0	1. CIP Code: 47.0604	4. Year:				
	2. Program Name:	5. Term:				
	Automotive Technician	6. Local Class Name:				
	3. PSN:					
		7. Subsection (optional)				
		A B C D	A B C D	A B C D	A B C D	A B C D
		8. Teacher Name:				
10. PCC	9. Competencies					
Α	A1					
Α	A2					
Α	A3					
В	B1					
С	C1					
D	D1					
E	E1					
E	E2					
F	F1					
F	F2					
F	F3					
Z	Z					





Perkins Course Competencies (PCC)

		_	_				
Perkins Course Competencies (PCC)	Updated February 2022 Competency (*any Standard/Competency not covered in a Credential must be covered by/with teacher developed unit(s) of study)	Industry Standard Safety Certificate	ASE Entry Level Automobile Service Technology Area Tests	ASE Entry Level Certification MLR	State of Michigan Mechanics Test	Former Segments	
Α	Demonstrate shop and personal safety skills as recognized by industry standards.	ie: SP 2, OSHA 10 or teacher selected safety program				(12) Career Ready Practices, (9) Required Supplemental Tasks, (10) Facility and Mobile Equipment Maintenance and (11) Transportation Distribution & Logistics	
	Demonstrate knowledge and skill in the use of automotive tools and equipment according to manufacturers recommendations.					(12) Career Ready Practices, (9) Required Supplemental Tasks, and (10) Facility and Mobil Equipment Maintenance	
	Demonstrate automotive industry standards and shop policies regarding customer vehicles.					(12) Career Ready Practices, (9) Required Supplemental Tasks, (10) Facility and Mobile Equipment Maintenance, and (11) Transportatio Distribution & Logistics	
	Demonstrate and understand the fundamentals of the braking system and related service information.		ASE Entry Level Certification Brakes (BR)		Brakes and Braking Systems	(5) Brakes	
	Demonstrate an understanding of vehicle steering and suspension components and service information.		ASE Entry Level Certification Steering and Steering (SS)		Front End, Suspension & Steering Systems	(4) Steering and Suspension	





Career Ready Practices Required for all CTE programs



- ✓ Demonstrate <u>problem solving skills</u> consistently and independently
- ✓ Demonstrate <u>communication skills</u> consistently and independently
- ✓ Demonstrate <u>Collaboration skills</u> consistently and independently
- ✓ Demonstrate <u>personal management</u> <u>skills</u> consistently and independently





Career Ready Practices

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	Knowledge	skill	Performance Element	Measurement Criteria	26.0102 Biomedical Sciences, General (2017)	Standard Source
6	I				Career Ready Practices	Advance CTE
7		A			Career Ready Skills	Advance CTE
8			1		Act as a responsible and contributing citizen and employe.	1
9			2		Apply appropriate academic and technical skills.	2
0			3		Attend to personal health and financial well-being.	3
1			4		Communicate clearly, effectively and with reason.	4
2			5		Consider the environmental, social and economic impacts decisions.	5
3			6		Demonstrate creativity and innovation.	6
4			7		Employ valid and reliable research strategies.	7
5			-		Model integrity, ethical leadership and effective management.	8
6			9		Plan education and career path aligned to personal oals.	9
7			10		Use technology to enhance productivity.	10
8			11		Vilize critical thinking to make sense of problems and personer in solving them.	11
9			12		Work proud tively in teams whileg cultural/global competence.	12

Competency	leady Practices are required for Problem Solving (PS)	Competency	Collaboration (CL)	Competency	Personal Management (PM)	Competency	Communication (CM)
PS Competency Statement	Demonstrate problem solving skills consistently and independently	CL Competency Statement	Demonstrate collaboration skills consistently and independently	PM Competency Statement	Demonstrate personal management skills consistently and independently	CM Competency Statement	Demonstrate communication skills consistently and independently
PS1 Standard	Employ valid and reliable research strategies	CL1 Standard	Work productively in teams while using cultural global competence	PM1 Standard	Attend to personal health and financial well-being	CM1 Standard	Communicate clearly and effectively and with reason
PS1A	Evaluate validity of sources	CL1A	Contribute to every team, whether formal or informal	PM1A	Understand the relationship between personal health, workplace performance and personal well being	CM1A	Communicate thoughts, ideas and action plans with clarity, whether using written, verbal and/or visual methods
PS1B	Use an informed process to research new information and test new ideas and practices	CL1B	Apply awareness of cultural differences to avoid barriers to productive and positive interaction	PM1B	Act on an understanding to regularly practice healthy diet, exercise, and mental health activities	CM1B	Communicate in the workplace with clarity and purpose make maximum use of your own and others' time
PS1C	Discern accepting and using information to make informed decisions	CL1C	Increase the engagement and contribution of all team members	PM1C	Take regular action to contribute to personal financial well-being	CM1C	Write master conventions, word choice and organization and use effective tone and presentation skills to articula ideas
PS2 Standard	Consider the environmental, social and economic impacts of decisions	CL1D	Plan and facilitate effective team meetings (in person and virtual)	PM1D	Recognize that personal financial security provides the peace of mind required to contribute more fully to career success	CM1D	Interact with others; actively listen and speak clearly and with purpose
PS2A	Understand the interrelated nature of actions and their impact	CL2 Standard	Act as a responsible and contributing citizen and employee	PM2 Standard	Plan education and career paths aligned to personal goals	CM1E	Consider the audience for all communications and prepare accordingly to ensure the desired outcome
PS2B	Make decisions that positively impact or mitigate negative impact on the environment and others	CL2A	Understand the obligations and responsibilities of being a member of a community and demonstrate this understanding through interactions with others	PM2A	Take personal ownership of educational goals and career goals and regularly act on a plan to attain these goals	CM2 Standard	Use technology to enhance productivity
PS2C	Be aware of new resources, procedures, technologies, and materials and their impact on the environment, social condition and the organization	CL2B	Be conscientious of the impact of decisions on others and the environment	PM2B	Understand personal interests, preferences, and goals	CM2A	Maximize the productive value of existing and new technology to accomplish workplace tasks and solve workplace problems
PS3 Standard	Utilize critical thinking to make sense of problems & persevere in solving them	CL2C	Identify the near-term and long-term consequences of actions and seeking to act in ways that contribute to the betterment of the team, family, community, and workplace	PM2C	Display perspective regarding the career pathways available and the time, effort, experience, and other requirements to pursue each, including the path of entrepreneurship	CM2B	Flexible and adaptive in acquiring and using new technology
PS3A	Recognize problems in the workplace, understanding the nature of the problem and devising effective plans to solve the problem	CL2D	Be reliable and consistent in going beyond the minimum expectations and participating in activities that serve the greater good	PM2D	Recognize the value of each step in the educational and experiential process	CM2C	Proficient with ubiquitous technology applications
PS3B	Recognize problems as they occur and take action to quickly address the problem	CL3 Standard	Model integrity, ethical leadership and effective management	PM2E	Recognize that nearly all career paths require ongoing education and experience	CM2D	Understand and take actions to prevent or mitigate inherent risks of technology applications both personal and organizational
PS3C	Investigate the root cause of the problem prior to introducing solutions	CL3A	Consistently act in ways that align to personal and community-held ideals and principles	PM2F	Seek counselors, mentors, and other experts to assist in the planning and execution of career and personal goals		
PS3D	Carefully consider the options to solve the problem	CL3B	Employ strategies to positively influence others in the workplace		COLOR KEY		
PS3E	Follow through with the agreed upon solution to ensure the problem is solved, either by your own	CL3C	Understand integrity and act on this understanding in every decision		Problem Solving (PS) Standards PS1, PS2, PS3, PS4, PS5		





What questions do you have?





Candace Vinson, Education Consultant vinsonc@michigan.gov

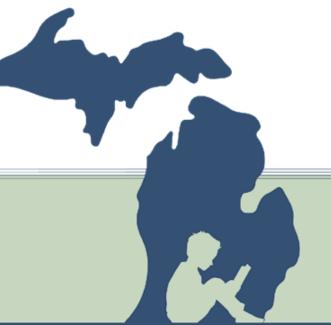
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Office of Career and Technical Education
Career Readiness Unit

