

46.0000 Construction Trades (2021)

Safety, Health & Environment	Industry Foundations	Green Practices
Implement personal and jobsite safety rules and regulations to maintain safe and healthy working conditions and environments. A1	Demonstrate Language Arts, Mathematics and Science knowledge and skills required for educational and career opportunities. (Academic Foundations) A3	Identify and describe construction trends related to green practices and construction. C2
Equipment & Tools	Describe the various industry operations associated with the Construction Trades field. (Industry Overview) A2	Residential Construction
Identify and demonstrate use of hand, power and construction related machinery. B1	Develop a variety of communication skills necessary for employment. (Communication) A4	Identify and describe specific materials and methods associated with residential construction. B3
<i>Identify and describe the use of heavy equipment in construction trades . D1</i>	Describe and demonstrate leadership and teamwork skills necessary for employment. (Leadership) B2	Demonstrate and apply knowledge of specific materials and methods associated with residential construction. C1
Project Management/Business Fundamentals	Understand and use necessary technology related skill sets associated with career development and the field of construction trades. (Information Technology) C3	Heavy Equipment/Highway
Identify, describe and demonstrate a variety of building and project management methods needed to complete a construction project. (Building Systems/Legal/Ethics) A7	Describe and implement a variety of problem-solving and critical thinking strategies as necessary techniques for successful employment. (Problem-solving) A5	<i>Identify and describe the use of heavy equipment in construction trades. D1</i>
Identify, describe and demonstrate the necessary elements in business and project management as aligned to the field of construction trades. D3	Develop a broad range of career and employability skills necessary for career beyond high school career practices. (Career & Employability) A6	Identify and describe knowledge of heavy/highway and civil projects, materials and methods in the construction of different projects. D2

Orange Font = PCC Competency Code (A1 = PCC A, Competency Statement 1)

Career Ready Practices*
Refer to the Career Ready Practices tab for standards and performance indicators
Demonstrate <u>problem solving skills</u> consistently and independently
Demonstrate <u>collaboration skills</u> consistently and independently
Demonstrate <u>personal management skills</u> consistently and independently
Demonstrate <u>communication skills</u> consistently and independently
*Required for ALL CTE programs. Not reported in CTEIS. Monitored through CIP Self-review and TRAC review.

Career Ready Practices are required for ALL Michigan Career and Technical Education programs(reformatted 2022-print one page, landscape)

Competency	Problem Solving (PS)	Competency	Collaboration (CL)	Competency	Personal Management (PM)	Competency	Communication (CM)
PS Competency Statement	Demonstrate <u>problem solving skills</u> consistently and independently	CL Competency Statement	Demonstrate <u>collaboration skills</u> consistently and independently	PM Competency Statement	Demonstrate <u>personal management skills</u> consistently and independently	CM Competency Statement	Demonstrate <u>communication skills</u> 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 to 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 articulate 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				
PS3E	Follow through with the agreed upon solution to ensure the problem is solved, either by your own actions or that of others	CL3C	Understand integrity and act on this understanding in every decision				
PS4 Standard	Demonstrate creativity and innovation	CL3D	Use a variety of means to positively impact the direction and actions of a team or organization				
PS4A	Regularly think of ideas that solve problems in new and different ways	CL3E	Apply insights into human behavior to change others' actions, attitudes and/or beliefs				
PS4B	Contribute ideas in a useful and productive manner to improve the organization	CL3F	Recognize the near-term and long-term effects that management's actions and attitudes can have on productivity, morale, and organizational culture				
PS4C	Consider unconventional ideas and suggestions as solutions to issues, tasks or problems and distinguish which ideas will add greatest value						
PS4D	Seek new methods, practices and ideas from a variety of sources and seek to apply those ideas to the workplace						
PS4E	Take action on ideas and understand how to bring innovation to an organization						
PS5 Standard	Apply appropriate academic and technical skills						
PS5A	Use knowledge and skills to be productive						
PS5B	Make connections between abstract concepts and real-world applications						
PS5C	Make correct insights and apply academic skills in the workplace as appropriate						

COLOR KEY

Problem Solving (PS) Standards

PS1, PS2, PS3, PS4, PS5

PS Performance Indicators:

PS1A-1C, PS2A-2C, PS3A-3E, PS4A-4E, PS5A-5C

Collaboration (CL) Standards

CL1, CL2, CL3

CL Performance Indicators:

CL1A-1E, CL2A-2D, CL3A-3E

Personal Management (PM) Standards

PM1, PM2

PM Performance Indicators:

PM1A-1E, and PM2A-2E

Communication (CM) Standards

CM1, CM2

CM Performance Indicators:

CM1A-1E, CM2A-2D

Source:

<https://careertech.org/career-ready-practices>