



Career and Technical Education (CTE) Middle School Competencies

Career Cluster:
M46-Construction

May 2026



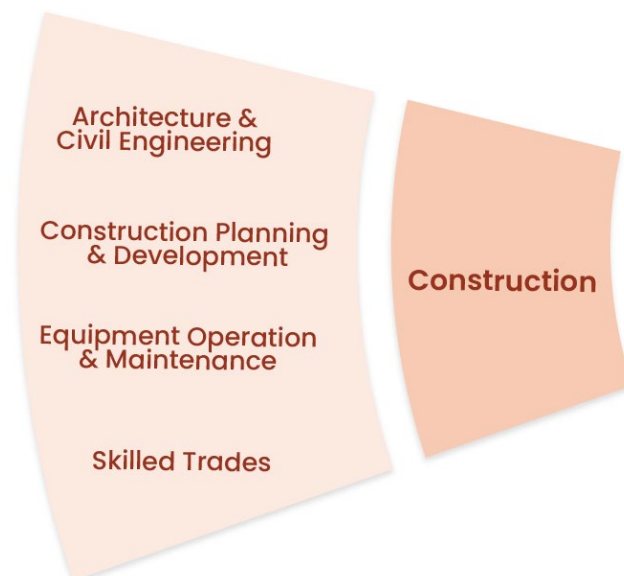
M46-Construction: Building Futures and Pioneering Sustainable Horizons

Cluster Definition: The Construction Career Cluster focuses on professions involved in designing, planning, managing, and executing projects in the built environment. It emphasizes sustainable building practices to ensure that structures are both environmentally responsible and resilient. Careers in this Cluster are pivotal in creating durable infrastructure that meets present needs without compromising future generations' ability to meet their own, covering a range of roles from architects and engineers to construction managers and skilled tradespeople.

Sub-Clusters:

- Architecture & Civil Engineering
- Construction Planning & Development
- Equipment Operation & Maintenance
- Skilled Trades

More details can be found at [Construction - Advance CTE](#)



Middle School Competencies

The MS Instructional Design form will be used to communicate the delivery model of the program, which will also be entered into the Career and Technical Education Information System (CTEIS).

| Competency Code | M46 Construction Middle School Competency Statements |
|------------------------|--|
| M1 | Evaluate industry safety protocols by identifying common construction site hazards (e.g., falls, equipment misuse) and implementing proper use of personal protective equipment (PPE) and signage. |
| M2 | Explain the roles and responsibilities of professionals across construction sub-clusters—like architects, engineers, and skilled tradespeople—during the planning, design, and building phases. |
| M3 | Analyze sustainable building practices by comparing different materials and methods that balance cost, environmental impact, and structural integrity. |
| M4 | Apply basic drafting and measurement techniques to interpret simple blueprints, calculate dimensions, and perform layout exercises. |
| M5 | Differentiate between types of construction equipment and tools—such as earth-moving machinery, carpentry tools, and safety gear—and describe their appropriate maintenance routines. |
| M6 | Create small-scale construction projects—like model foundations, wall sections, or landscape elements—using safe practices and teamwork to simulate real jobsite processes. |
| M7 | Assess building codes, permit requirements, and site regulations to understand how compliance ensures legal, safe, and sustainable construction outcomes. |
| M8 | Explore careers in the Construction Career Cluster and connect these opportunities to personal interests, strengths, and future goals. |

Advance CTE Career Ready Practices

Career Ready Practices, built on a meta-analysis of over 30 different listings of general professional skills developed by industry and educational institutions, represent the skills needed to succeed in the modern workplace. These practices should be embedded across the pre-kindergarten to workforce continuum. Refer to the [Advance CTE Career Ready Practices](#) document for more detailed information.

| Competency Code | Career Ready Practices |
|------------------------|--|
| CRP 01 | Lead as a contributing and professional employee |
| CRP 02 | Communicate clearly, effectively, and with reason |
| CRP 03 | Think critically to make sense of problems and persevere in solving them |
| CRP 04 | Collaborate productively while using cultural and global competencies |
| CRP 05 | Use digital skills and technologies to enhance productivity and make data-informed decisions |
| CRP 06 | Remain resilient in a changing workplace and world of work |
| CRP 07 | Manage time and space effectively |
| CRP 08 | Demonstrate a creative and innovative mindset |
| CRP 09 | Act as a good steward of organizational and personal finances and resources |
| CRP 10 | Navigate an education and career path aligned to strengths, work style, interests, and goals |
| CRP 11 | Consider the environmental and social impacts of decisions |
| CRP 12 | Apply appropriate academic and technical skills |