

Plumbing Endorsement

Specifications, Competencies & Requirements

PURPOSE

This endorsement is meant for certified teachers interested in teaching **Plumbing** courses. It attaches to a current Utah Educator License with a license area of concentration in **Secondary** or **CTE** Education.

Upon attachment of this endorsement to a Utah educator license, educators will be approved to teach the following USBE courses:

- Construction Technology
- Construction Trades Foundation
- Plumbing 1
- Plumbing 2

ENDORSEMENT TYPES

Prerequisite

Demonstrate an understanding of Career and Technical Education (CTE) basics.

- CTE Knowledge

Associate Level Requirements

Applicants must complete the following competency requirement. The associate level endorsement is valid for up to three school years before it expires. Associate-level endorsements are non-renewable.

- Installation, Maintenance, and Repair of Plumbing Systems (**Division of Professional Licensing P100/200 Contractor License**)

****Instructors and LEAs are required to follow Utah Administrative Rules regarding construction-related projects, instruction, and licensing as referenced in the Utah Construction Trades Licensing Act [R156-55a](#).**

Professional Level Requirements

The applicant must meet **ALL** the competency areas listed below.

- CTSO Knowledge
- Construction Safety

COMPETENCY DETAILS & DESCRIPTIONS

Prerequisite

1. CTE Knowledge

Demonstrate an understanding of CTE basics:

- Explain how CTE links learning to specific Utah industries and what its main goals are.
- Know the licenses and endorsements needed to teach specific CTE courses.
- Describe how CTE is organized into clusters and pathways at the state, district (LEA), and school levels, and how this helps students succeed after graduation.

- Locate and use the state's strands and standards in lesson plans.
- Explore CTE student organizations (CTSOs) and professional groups and explain how they support students and teachers.
- Explain how advisory boards, with industry members, make sure programs meet job market needs and maintain safe learning environments.
- Understand the basics of securing funding, planning for the future of the program, and participating in the state Program of Quality Review (PQR) to ensure program excellence.

Select **one** of the following options:

- **USBE Course:** [CTE Orientation](#)
- **Complete THREE years of full-time CTE Teaching in Utah**
- **Currently hold a professional-level CTE endorsement**

Associate Level Competency

2. Installation, Maintenance, and Repair of Plumbing Systems

Must have a thorough understanding of plumbing systems, including water supply, drainage, and sewage systems. Be knowledgeable about various pipes, fittings, and fixtures, as well as local building codes and safety regulations. Proficiency in reading blueprints and technical diagrams is essential, along with skills in diagnosing and repairing leaks, blockages, and other plumbing issues. Additionally, stay updated on new technologies and industry standards to ensure efficient and compliant work.

****Instructors and LEAs are required to follow Utah Administrative Rules regarding construction-related projects, instruction, and licensing as referenced in the [Utah Construction Trades Licensing Act R156-55a](#).**

Select **one** of the following options:

- **Division of Professional Licensing P200:** General Plumbing Contractor License
- **Division of Professional Licensing P201:** Residential Plumbing Contractor License

Professional Level Competencies

3. Construction Safety

Demonstrate best practices relevant to Construction education:

- Classroom, shop, & lab safety & procedures (environmental)
- Training methods (technology, tools, and resources)

Select **one** of the following options:

- **USBE Microcredential:** [Construction Safety](#)
- **BCCM 1010 - Building Construction Safety** (Utah State University)
- **College Course:** Transcripts showing passing grade of relevant course(s), and course description covering the required competency skills.
- **OSHA 10-Hour Completion Card**

4. CTSO Knowledge

Demonstrate Career and Technical Student Organization (CTSO) knowledge:

- **Help students lead:** Give students opportunities to build their leadership abilities and take charge.
- **Mentor students:** Offer guidance to help students set goals and overcome difficulties as they grow.
- **Manage the organization:** Coordinate meetings, events, and budgets, and handle administrative tasks smoothly.
- **Create helpful programs:** Develop activities that match the CTSO's goals of building leadership, exploring careers, and developing skills.
- **Communicate effectively:** Clearly talk with students, school leaders, and community members, and promote the CTSO.
- **Work with others:** Partner with teachers, businesses, and other organizations to create opportunities like internships and community service.
- **Advocate for CTE:** Promote Career and Technical Education and work to get the resources and recognition it needs.
- **Keep learning:** Stay up-to-date on CTSO management and trends in CTE.
- **Focus on student success:** Support students' interests and celebrate their accomplishments.

Select ***one*** of the following options:

- **Attend a CTSO Fall Leadership Conference:** Reflected on MIDAS transcripts.
- **USB E Course:** [SkillsUSA Utah Advisor Training](#)
- **USB E Microcredential:** Career & Technical Student Organizations (under development)