

Residential Construction Trades Endorsement

Specifications, Competencies & Requirements

PURPOSE

This endorsement is meant for certified teachers interested in teaching **Residential Construction Trades (formerly Construction Management)** 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 are approved to teach courses as outlined in the current school year USBE Assignment Requirements.

The most up-to-date course assignments and codes can be found on the USBE website by navigating to [Administrative & School Supports](#) and selecting the appropriate “**20XX–20XX Assignments Requirement**” link under CACTUS Codes & Data for SYXX (updated annually by school year).

Applicants and LEAs should refer to this resource as the master list for current approved courses and assignment codes associated with this endorsement.

ENDORSEMENT TYPES

Prerequisite

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

CTE Knowledge

Associate Level Requirements

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

Residential Construction Trades

Estimating & Scheduling

Construction Safety

Professional Level Requirements

The applicant must meet **ALL** the competency areas listed above, including CTSO Knowledge.

CTSO Knowledge

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

Endorsement Competencies

2. Residential Construction Trades

Demonstrate basic understanding, terminology, and procedures for ALL the following:

- Construction plans
- Wall and floor layout
- Stair construction
- Roof construction
- Codes & zoning

Demonstrate basic residential construction concepts for ONE of the following:

- Electrical
- Plumbing
- HVAC
- Finishing
- Foundation
- Building envelope

Select **one** of the following options:

- USBE Microcredential: [Residential Construction Trades](#)
- BCCM 2010 - Framing I (Utah State University)
- College Course: Transcripts showing passing grade of relevant course(s), and course description covering the required competency skills.
- DOPL B100 General Contractor License
- DOPL R100 Residential/Small Commercial Contractor License

3. Construction Estimating & Scheduling

Demonstrate applied mathematical concepts in relation to the construction field.

- Dimensions
- Areas
- Volumes
- Material quantities/sizes/types
- Cost
- Labor
- Time

Select **one** of the following options:

- USBE Microcredential: [Construction Estimating & Scheduling](#)
- BCCM 2240 - Construction Estimating (Utah State University)

- College Course: Transcripts showing passing grade of relevant course(s), and course description covering the required competency skills.
- DOPL B100 General Contractor License
- DOPL R100 Residential/Small Commercial Contractor License

4. 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

5. 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 ALTITUDE transcripts.
- USBE Course: [SkillsUSA Utah Advisor Training](#)
- USBE Microcredential: Career & Technical Student Organizations