

# Bicycle Repair Training Endorsement

## *Specifications, Competencies & Requirements*

### PURPOSE

This endorsement is meant for certified teachers interested in teaching **Bicycle Repair** 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:

#### **Bicycle Repair Training 1**

### ENDORSEMENT TYPES

#### *Prerequisite*

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

CTE Knowledge

#### *Associate Level Requirements*

Applicants must complete **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.

Bicycle Maintenance & Repair

CTSO Knowledge

#### *Professional Level Requirements*

The applicant must meet **ALL** the competency areas listed above for the professional level.

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### 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

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## Endorsement Competencies

### 2. Bicycle Maintenance & Repair

Possess both practical skills and theoretical understanding of bicycle maintenance and repair across key mechanical systems. This includes proficiency in selecting appropriate tools and equipment, performing accurate diagnostics, and safely conducting repairs in alignment with manufacturer specifications. Demonstrate knowledge of component compatibility, functionality, and optimization, as well as the ability to make precise adjustments, understand service intervals, and enhance overall performance. Educators must be able to teach foundational mechanical principles and apply them across a range of bicycle types, fittings, and operational systems.

- Basic Mechanical Skills
- Wheels, Tires, & Tubes
- Drivetrain
- Bearing Systems
- Brake Systems
- Contact Points
- Suspension
- E-Bikes

Select **one** of the following options:

- **Utah Bicycle Repair Teacher Exam (UBRTE):** Available at USBE Automotive, Diesel, & Collision Summer Conference.
- **USBE Microcredential Pathway:** Bicycle Repair
- **Bike Fix Basic Mechanic Course Completion**
- **Professional Bicycle Mechanics Association Certification**
- **Project Bike Tech Certification**
- **United Bicycle Institute Certification**
- **Bicycle Industry Employers Association (BIEA) Certification**
- **Other Industry Equivalent Certification**

### 3. 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