

# Small Engine Repair Endorsement

## *Specifications, Competencies & Requirements*

### PURPOSE

This endorsement is meant for certified teachers interested in teaching **Small Engine 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 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 **TWO** of the following competency requirements. The associate-level endorsement is valid for up to 3 school years before it expires. Associate-level endorsements are non-renewable.

- Basic Automotive Electrical
- Preventative Maintenance
- Automotive Tool Usage
- Auto, Diesel, & Collision Shop Management

#### *Professional Level Requirements*

The applicant must meet **ALL** the competency areas listed above and CTSO Knowledge 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**

## Endorsement Competencies

### 2. Basic Automotive Electrical

Demonstrate a knowledge of electrical theory, performance of diagnostics, and troubleshooting regarding common electrical components of light vehicles and equipment.

- Behavior of electrons, voltage, current, and resistance
- Diagnostic tools, DVOMs, & test lights
- Electrical circuit components & failures
- Wiring diagram reading & interpretation
- High voltage systems
- Safety protocols (ID, prevent, & mitigate hazards)
- Operation and maintenance of components

Select **one** of the following options:

- **USBE Microcredential:** Basic Automotive Electrical (Power Motor Sports Repair Endorsement Stack)
- **AUTO 1600 - Electrical and Electronics I Theory** (Utah State University)
- **College Course:** Transcripts showing passing grade of relevant course(s), and course description covering the required competency skills.
- **ASE A6:** Electrical Electronics
- **Industry Certification:** Verifiable certificate covering the required competency skills.

### 3. Preventative Maintenance

Demonstrate key tasks for preventative maintenance:

- Cleanings
- Sharpening cutting components
- Air filter service
- Engine and gearbox oil service
- Belts, cables, levers, and chains
- Ignition system components
- Fuel system

Select **one** of the following options:

- **USBE Microcredential:** Preventative Maintenance (Power Motor Sports Repair Endorsement Stack)
- **AUTO 1000 - Introduction to Transportation Technology I** (Utah State University)
- **College Course:** Transcripts showing passing grade of relevant course(s), and course description covering the required competency skills.

- **ASE G1:** Auto Maintenance and Light Repair
- **Industry Certification:** Verifiable certificate covering the required competency skills.

## 4. Automotive Tool Usage

Demonstrate safe and appropriate use of:

- Hand tools
- Power tools
- Pneumatic tools
- Storage and maintenance
- Benchtop equipment
- Lift equipment

Select **one** of the following options:

- **USBE Microcredential:** Automotive Tool Usage (Power Motor Sports Repair Endorsement Pathway)
- **AUTO 1000 - Introduction to Transportation Technology I** (Utah State University)
- **College Course:** Transcripts showing passing grade of relevant course(s), and course description covering the required competency skills.
- **Industry Certification:** Verifiable certificate covering the required competency skills.

## 5. Auto, Diesel, & Collision Shop Management

Demonstrate best practices relevant to Automotive/Diesel shop management:

- Equipment & tool management
- Shop management
- Safety

Select **one** of the following options:

- **USBE Microcredential:** Auto, Diesel, & Collision Shop Management (Power Motor Sports Repair Endorsement Pathway)
- **AUTO 1000 - Introduction to Transportation Technology I** (Utah State University)
- **College Course:** Transcripts showing passing grade of relevant course(s), and course description covering the required competency skills.

## 6. 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:

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