



# Engineering Endorsement Application

*Endorsement Application for the Utah State Board of Education*

## APPLICANT INFORMATION

Name: CACTUS ID#:

Email:

## PURPOSE

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

### *Prerequisite Requirement*

CTE Knowledge

### *Associate Level Requirement*

Complete **THREE** of the required competencies.

This endorsement is non-renewable and valid for up to three school years before it expires.

### *Professional Level Requirements*

Complete **ALL** the competency areas.

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## ENDORSEMENT COMPETENCY AREAS

### *1. CTE Knowledge (REQUIRED)*

Select one of the following options:

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

### *2. CAD/3D Modeling*

Select one of the following options:

- Bachelor's degree in engineering/technology and engineering education
- NOCTI #5915 Pre-Engineering Exam
- Onshape CAD Basics Learning Pathway

### *3. Engineering Design*

Select one of the following options:

- Bachelor's degree in engineering/technology and engineering education
- NOCTI #5915 Pre-Engineering Exam
- iCev Engineering Design & Problem Solving

#### **4. Electrical Theory & Digital Electronics**

Select one of the following options:

- Bachelor's degree in engineering/technology and engineering education
- SACA Certified Industry 4.0 Control Systems Specialist
- Skil Share Arduino Intro Course

#### **5. Electronic Components & Testing**

Select one of the following options:

- Bachelor's degree in engineering/technology and engineering education
- SACA Certified Industry 4.0 Control Systems Specialist
- Skil Share Arduino Intro Course

#### **6. C-Based Programming**

Select one of the following options:

- Bachelor's degree in engineering/technology and engineering education
- Automated Manufacturing Program from a Technical College
- SACA Certification Mtech
- Skillshare Introduction to Arduino: Creating Interactive Projects certificate
- Arduino for Makers: Intro to Microcontrollers

#### **7. Industrial Robotics & Automation**

Select one of the following options:

- Bachelor's degree in engineering/technology and engineering education
- Automated Manufacturing Program from a Technical College
- SACA Certification Mtech
- Skillshare Introduction to Arduino: Creating Interactive Projects certificate
- Arduino for Makers: Intro to Microcontrollers

#### **8. Lab Safety**

Select one of the following options:

- Bachelor's degree in engineering, computer science, or manufacturing
- Praxis #5051 Technology Education
- OSHA Safety Certification
- Technology & Engineering Lab Safety Microcredential (Coming 2026)



## 9. CTSO Knowledge

Select one of the following options:

- Attend a CTSO Fall Leadership Conference
- USBE Course: SkillsUSA Utah Advisor Training
- USBE Microcredential: Career & Technical Student Organizations (under development)

## APPLICATION SUBMISSION

Please submit the application online in the Utah Educator Licensing Application System, [Survey Monkey Apply](#) (<https://usbelicensing.smapply.us>)