

# Manufacturing

The **Manufacturing** Career Cluster focuses on preparing students for employment in careers that relate to the planning and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering.



**Manufacturing**  
Utah Career and Technical Education  
CAREER CLUSTERS



## UTAH CAREER AND TECHNICAL EDUCATION (CTE) CAREER PATHWAYS ALIGN WITH THE NATIONAL CAREER CLUSTERS®.

# 2,958

students concentrated in a CTE Career Pathway within the **Manufacturing** Career Cluster, with 172,020 students enrolled in CTE courses. (SY 2020-2021)

CTE provides all students access to high-quality rigorous career focused programs that result in attainment of credentials with labor market value.

# 45.6%\*

of students statewide **concentrated** in a CTE Career Pathway.

A concentrator is a student who has completed specific requirements in a single CTE program of study.

# 16%\*

of students statewide **completed** a CTE Career Pathway.

A completer is a student who has completed specific course requirements and earned 3.0 credits in a single CTE program of study.

\* Perkins V strengthens the requirements for a student to become a concentrator and completer. Percentages have decreased over prior years as a result of the new Perkins V definitions.

## TOP THREE

### CTE Skill Certifications

earned by students in CTE Career Pathways within the **Manufacturing** Career Cluster. (SY 2020-2021)

**1,671** Welding Tech., Entry

**1,533** Manufacturing Tech.

**615** CAD Mechanical Design

# 4,102

CTE Skill Certifications earned by students in this Career Cluster. (SY 2020-2021)

Students have an opportunity to earn third-party certifications in the **Manufacturing** Career Cluster.

## Student Success

"My long-term occupation and educational goal is to get a job working in the aerospace industry making composites. I appreciate the opportunity I have had to pursue CTE classes, both in high school and in the composites program at Mountainland Technical College. I feel like I have a head start on my future career. I feel that through taking CTE classes I was able to find a plan that will work for me."

Jacob Michael Argyle

# 2,104

students are members of a Career and Technical Student Organization (CTSO) aligned with the **Manufacturing** Career Cluster. Students who participate in the related CTE Career Pathways have the opportunity to join the Career and Technical Student Organization (CTSO) of **SkillsUSA** or **TSA**. (SY 2020-2021)

[UtahSkillsUSA.org](http://UtahSkillsUSA.org) | [SkillsUSA.org](http://SkillsUSA.org)  
[UtahTSA.org](http://UtahTSA.org) | [TSAweb.org](http://TSAweb.org)

## CTE Career Pathways

Through participation in CTE Career Pathways students learn how to become productive employees and gain the academic skills to increase their earning potential while still in high school. Utah CTE Career Pathways are categorized by Career Cluster and each Career Pathway culminates in an industry-recognized credential of value.

### Manufacturing Career Cluster

#### Utah CTE Career Pathways: (SY 2022-2023)

- > Manufacturing & Production
- > Welding & Machining

**CTE** Learning that works for Utah

Data Represents 2020-2021 Secondary Education  
Source of Data: Utah State Board of Education  
July 2022