

# 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.



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

# 4,968

students concentrated in a CTE Career Pathway within the **Manufacturing** Career Cluster, with **160,054 students enrolled in CTE courses**.

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

# Fifty-six

percent of students statewide **concentrated** in a CTE Career Pathway. A **concentrator** is a student who has completed **1.5 credits** in a single CTE program of study.

# Twenty-five

percent of students statewide **completed** a CTE Career Pathway. A **completer** is a student who has completed **3.0 credits** in a single CTE program of study.

## TOP THREE

industry certifications earned by students in CTE Career Pathways within the **Manufacturing** Career Cluster.

3,802	Woodworking
1,829	Welding Technician
1,815	Mfg. Technology

Industry-based certifications are awarded through validation of skills in cooperation with a business, trade association, or other industry group.

## 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

# 5,004

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**.

[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:

- > Advanced Manufacturing
  - Cabinetmaking/Millwork
  - Machine Tool
- > Aerospace Manufacturing
- > Biomanufacturing
- > Welding

 Learning that works for Utah

2016-2017 Data Represents Secondary Education  
Source of Data: Utah State Board of Education

# 8,650

CTE Skill Certificates awarded to students in the **Manufacturing** Career Cluster.