

# Manufacturing



# Welding

## Business & Industry Endorsement

The Welding program of study focuses on the development and use of automatic and computer-controlled machines, tools, and robots that perform work on metal or plastic. CTE learners will learn how to modify parts to make or repair machine tools or maintain individual machines, and how to use hand-welding or flame-cutting equipment.

### Level 1 Course



Introduction to Welding

### Level 2 Course



Welding I  
Entrepreneurship I

### Level 3 Course



Welding II

### Level 4 Course



Practicum of  
Entrepreneurship

### Recommended Course Sequence:

#### 9th grade

Introduction to  
Welding

#### 10th grade

Welding 1

#### 11th grade

Welding 2

#### 12th grade

Practicum in  
Entrepreneurship

### Industry Based Certifications:

- AWS D1.1
- AWS D9.1
- NCCER Core
- NCCER Welding Level 1

### Postsecondary Opportunities:

Entry level:  
Welder

Associate Degree:  
Welding Technology  
Building & Construction Site Manager

Bachelor's Degree:  
Project Management

Masters, Doctoral, Degrees  
Engineer