

# MANUFACTURING

## MANUF 1 – Manufacturing Tech



**9TH GRADE**  
Principles of Manufacturing (1)

**10TH GRADE**  
Diversified Manufacturing I (1)  
*OSHA 10-hr*

**11TH GRADE**  
\*Diversified Manufacturing II (1)  
*\*AWS D1.1 Structural Steel*  
OR  
\*Precision Metal Manufacturing I (2)

**12TH GRADE**  
\*Practicum in Manufacturing (2)  
OR  
\*Precision Metal Manufacturing II (2)  
*\*AWS D1.1 Structural Steel*

**EXAMPLE OCCUPATIONS**

**Machinist**  
Median Wage: \$49,608  
Annual Openings: 2,098  
10-Year Growth: 23%

**Industrial Engineering Tech**  
Median Wage: \$60,026  
Annual Openings: 462  
10-Year Growth: 17%

**Mechanical Engineer**  
Median Wage: \$103,189  
Annual Openings: 1,455  
10-Year Growth: 19%

## MANUF 2 – Welding



**9TH GRADE**  
Principles of Manufacturing (1)

**10TH GRADE**  
Welding I (2)  
*OSHA 10-Hour*  
*\*AWS D1.1 Structural Steel*

**11TH GRADE**  
\*Welding II (2)  
*\*AWS D1.1 Structural Steel*

**12TH GRADE**  
\*Practicum in Manufacturing (2)

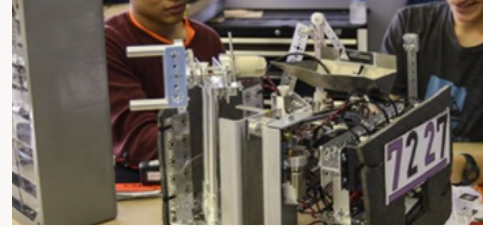
**EXAMPLE OCCUPATIONS**

**Welder, Cutter, Solderer, or Brazier**  
Median Wage: \$48,494  
Annual Openings: 5,636  
10-Year Growth: 23%

**Supervisor of Production Workers**  
Median Wage: \$62,514  
Annual Openings: 6,566  
10-Year Growth: 17%

**Industrial Production Manager**  
Median Wage: \$124,377  
Annual Openings: 1,544  
10-Year Growth: 19%

## MANUF 3 – Robotics– Manufacturing Focus



**9TH GRADE**  
Principles of Applied Engineering (1)  
OR  
Principles of Manufacturing (1)

**10TH GRADE**  
Robotics I (1)

**11TH GRADE**  
\*Robotics II K (1-math)  
*\*SACA Robotics Certification*

**12TH GRADE**  
\*Practicum in Manufacturing (2)

**EXAMPLE OCCUPATIONS**

**CNC Tool Operator**  
Median Wage: \$62,156  
Annual Openings: 220  
10-Year Growth: 10%

**Semiconductor Processing Tech**  
Median Wage: \$35,963  
Annual Openings: 592  
10-Year Growth: 9%

**Industrial Engineer**  
Median Wage: \$102,022  
Annual Openings: 1,996  
10-Year Growth: 26%