



Manufacturing Welding

WELDING COURSE PATHWAY



EXPLORATION **Mechanics & Metal Technologies** (optional, 8th grade)
Principles of Manufacturing



INVESTIGATION **Welding I**



PREPARATION **Welding II**



APPLICATION **Practicum in Manufacturing**
Career Preparation I (optional)

EXPANDED LEARNING OPPORTUNITIES

Career & Technical Student Organization

SkillsUSA
Welding competition
circuit

Work-based Learning

Local business or industry
apprenticeship
American Welding Society

INDUSTRY BASED CERTIFICATION OPPORTUNITIES

AWS D1.1 Structural Steel

AWS D9.1 Sheet Metal Welding

DUAL CREDIT OPPORTUNITIES

Discuss dual credit opportunities with
your counselor

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. Students 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.

POSTSECONDARY OPPORTUNITIES

ASSOCIATE'S DEGREE

- ◆ Certified Welder or Welder Inspector
- ◆ Machine Shop Technology/Assistant
- ◆ Operations Management and Supervision
- ◆ Occupational Safety and Health Technology/Technician

BACHELOR'S DEGREE

- ◆ Welding Engineering Technology/Technician
- ◆ Biomedical Technology/Technician
- ◆ Operations Management and Supervision
- ◆ Environmental Health

MASTER'S, DOCTORAL, & PROFESSIONAL DEGREES

- ◆ Welding Engineering Technology/Technician
- ◆ Occupational Health and Industrial Hygiene
- ◆ Operations Management and Supervision
- ◆ Environmental Health

CONNECTED OCCUPATIONS

Occupation	Median Wage	Annual Openings	% Growth
Welders, Cutters, Solders, and Brazers	\$41,350	6,171	9%
Welding Soldering and Brazing Machine Setters, Operators and Tenders	\$40,040	280	9%

Successful completion of the Welding program of study fulfills the requirements of a Business and Industry endorsement.

Temple ISD Course Details

COURSE NAME	PREREQUISITES	GRADES	TISD COURSE CODE	SERVICE ID and COURSE CREDIT
Mechanics & Metal Technologies 8th grade	None	8	V13022	13002200 (1 credit)
Principles of Manufacturing	None	9-12	V14100	13032200 (1 credit)
Welding I	Principles of Manufacturing	10-12	V14102 ⁺	13032300 (2 credit)
Welding II	Welding I	11-12	V14104 ⁺	13032400 (2 credits)
Practicum in Manufacturing*	Each of the above courses (Mechanics & Metal Tech optional)	12	V14110 ⁺	13033005 (3 credits)
Career Preparation I	Welding II	12	V12410	12701300 (2 credits)
Extended Career Preparation I	Welding II	12	V12713	12701305 (3 credits)

*Travel and costs are associated with this course

⁺Minimum courses required to meet CTE completer status

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