

# WELDING

**A two-year program based on the American Welding Society (AWS) curriculum.**

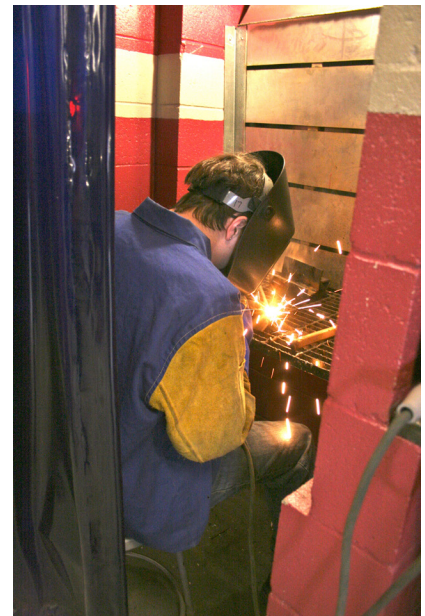
- The program provides broad exposure to the operation, standards, and current practices in the field of welding and fabrication.
- Students spend a majority of time practicing welding using hands-on techniques.
- Curriculum includes commencement level math and English language arts.
- All students are given the opportunity to participate in a Work-based Learning experience, which exposes them to the operation of a business and specific job duties related to careers in their CTE area. This internship is designed to connect the skills and knowledge learned in the CTE classroom with the real world requirements of a business.

## Curriculum Includes:

- |                                    |                       |
|------------------------------------|-----------------------|
| • Safety                           | • Blueprint reading   |
| • Structural Welding               | • Electrode selection |
| • Oxygen/acetylene welding         | • Joint design        |
| • Oxygen/acetylene cutting         | • Metallurgy          |
| • Mig and Tig welding              | • Quality Control     |
| • Basic Rod Identification and Use | • Symbols             |
| • Layout and Design                | • Technology          |

## Certifications & Endorsements

- American Welding Society (AWS) certification



## Students completing the program successfully qualify to work as:

- |   |                          |
|---|--------------------------|
| • Entry-level welder                      | • Apprentice             |
| • Entry-level basic shop equipment welder | • Welder, Burner, Brazer |
| • Welder's helper                         |                          |

## Employment opportunities requiring further education/apprenticeship:

- Iron worker
- Multiple Machine Setter, Operator
- Master welder
- Underwater welder
- Fabricator
- Sheet Metal Worker
- Supervisor



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