

## WELDING, Diploma Program - 0500

Engineering & Technology Department

CIP Code: 48.0508

The Welding Technology diploma program prepares students with the knowledge and skills needed for immediate job entry. Emphasis is placed on the basic techniques of blueprint reading, oxy fuel welding, shielded metal arc welding, gas metal arc welding, and gas tungsten arc welding. Students weld on carbon steel, aluminum, and stainless steel. The diploma program is offered at the Harrisburg and York campuses.

### Career Opportunities

Graduates are employed as entry level maintenance workers, basic assembly welders, and welders' helpers in industry.

(SOC Code: 51-4121 Welders, Cutters, Solderers and Brazers)

Link to occupational profiles on O\*NET: <http://www.onetcodeconnector.org/>

Application and admission information: <http://www.hacc.edu/NewStudents/Apply/index.cfm>

### Competency Profile

This curriculum is designed to prepare students to:

- Interpret welding blueprints
- Weld carbon steel, aluminum and stainless steel in various positions with the oxy fuel welding process
- Weld carbon steel in various positions with the shielded metal arc welding process
- Weld carbon steel, aluminum and stainless steel in various positions with the gas metal arc welding process
- Weld carbon steel, aluminum and stainless steel in various positions with the gas tungsten arc welding process

### PROGRAM REQUIREMENTS (TOTAL CREDITS = 24)

| General Education | Major Requirements                          |    | Other Required Courses                          |   |
|-------------------|---|----|---|---|
|                   | WELD 101 Print Reading Analysis for Welders | 3  | GTEC 101 Safety: OSHA 30 & NFPA 70E             | 3 |
|                   | WELD 102 Oxy Fuel Welding & Cutting         | 3  | MATH 161 Technical Math for General Technology* | 3 |
|                   | WELD 103 Shielded Metal Arc Welding I       | 3  |   | 6 |
|                   | WELD 105 Shielded Metal Arc Welding II      | 3  |   |   |
|                   | WELD 120 Gas Metal Arc Welding I            | 3  |   |   |
|                   | WELD 130 Gas Tungsten Arc Welding I         | 3  |   |   |
|                   |   | 18 |   |   |

\*May be replaced with a higher-level Math offering.

Please see the College's website at <http://www.hacc.edu/ProgramsandCourses/Welding-0500.cfm> for the most current Gainful Employment Information.