

# WELDING – SEMIAUTOMATIC ARC WELDING (CERTIFICATE T0933)

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## Technology and Health Division

### Certificate T0933

Prepares students for entry-level employment as a licensed welder with additional skills development and theory in semiautomatic ARC welding.

Coursework prepares students for industry licensing with emphasis on competencies required for certification in structural steel welding and specialty skills in semiautomatic ARC welding.

## Required Courses

| Course Prefix      | Course Name                                | Units     |
|--------------------|--------------------------------------------|-----------|
| WELD 40            | Introduction to Welding <sup>1</sup>       | 2         |
| WELD 50            | Oxyacetylene Welding                       | 2         |
| WELD 51            | Basic Electric Arc Welding                 | 2         |
| WELD 53A           | Welding Metallurgy                         | 3         |
| WELD 60            | Print Reading and Computations for Welders | 3         |
| WELD 70A           | Beginning Arc Welding                      | 3         |
| WELD 70B           | Intermediate Arc Welding                   | 3         |
| WELD 70C           | Certification for Welders                  | 3         |
| WELD 80            | Construction Fabrication and Welding       | 3         |
| WELD 81            | Pipe and Tube Welding                      | 3         |
| WELD 90B           | Semiautomatic Arc Welding Process          | 3         |
| <b>Total Units</b> |                                            | <b>30</b> |

<sup>1</sup> Note: Any higher level welding courses may be substituted for WELD 40.

Air Conditioning & Welding Website (<http://www.mtsac.edu/airconditioning-welding/>)

## Program Learning Outcomes

- Students will be employed or seeking employment in the area of study or a related area.
- Students will be technically competent.
- Students will demonstrate safe operation of welding equipment.

Review Student Learning Outcomes (SLOs) (<http://www.mtsac.edu/instruction/outcomes/sloinfo.html>) for this program.