

# 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
Total Units		30

<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/>)

Guided Pathways of Study Suggested Course Sequence (<https://www.mtsac.edu/guided-pathways/pathway-results.html?pthwyvar=T0933&desc=Welding+Semi-Automatic+Arc+Welding%2C+Certificate+T0933>)

### 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 \(SLOs\)](#) for this program.