

WELDER - LICENSED (CERTIFICATE N0643)

Technology and Health Division Certificate N0643

This program is designed to prepare students for entry-level employment in the broad field of welding, including manufacturing construction, fabrication and repair. Through theoretical and hand-on skills coursework students prepare for industry licensing with an understanding of current guidelines and standards. Particular emphasis is placed on those competencies required for certification in structural steel welding. Course sequences can be modified to reflect industry experience or other individual needs.

Required Courses

Course Prefix	Course Name	Units
WELD 40	Introduction to Welding ¹	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
Total Units		27

¹ 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=N0643&desc=Welder+Licensed%2C+Certificate+N0643>)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Be technically competent.
- Be employed or seeking employment in their area or a related area.
- Identify print views, lines, and dimensioning methods.

Review [Student Learning Outcomes \(SLOs\)](#) for this program.