

Welding Technology

2025-2026

Welding Technology Learning Outcomes

SMAW 1G Certification

The learner will achieve American Welding Society Shielded Metal Arc Welding (SMAW) 1G Certification.

MEASURES	RESULTS	ACTIONS
<p>AWS SMAW 1G certification</p> <p>Certification in the AWS SMAW 1G process. Direct - Exam (Certification/ Licensure)</p> <p>Target</p> <p>80% of students who take the certification exam achieve at least 1 certification in the SMAW 1G process during their first semester of the program.</p>	<p><i>No results have been added.</i></p>	<p><i>No actions have been added.</i></p>

GMAW 1G Certification

The learner will achieve American Welding Society Gas Metal Arc Welding (GMAW) 1G Certification.

MEASURES	RESULTS	ACTIONS
<p>AWS GMAW 1G certification</p> <p>Certification in the AWS GMAW 1G process. Direct - Assignment</p> <p>Target</p> <p>80% of students who take the certification exam achieve at least 1 certification in GMAW 1G process during their first semester of the program.</p>	<p><i>No results have been added.</i></p>	<p><i>No actions have been added.</i></p>

Advanced Welding Certification

The learner will achieve American Welding Society advanced certification.

MEASURES	RESULTS	ACTIONS
<p>Advanced Welding Certifications</p> <p>Advanced welding processes: (WELD 1630)</p> <ul style="list-style-type: none"> GMAW (2G, 3G, 4G, 5G) 	<p><i>No results have been added.</i></p>	<p><i>No actions have been added.</i></p>

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<ul style="list-style-type: none"> • SMAW (2G, 3G, 4G, 5G, 6G) • GTAW • FCAW • MCAW <p>Direct - Exam (Certification/ Licensure)</p> <p>Target</p> <p>80% of students achieve 2 certifications in an advanced welding process.</p>		
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Workplace Readiness

The learner will demonstrate advanced skills on the capstone project.

MEASURES	RESULTS	ACTIONS
<p>Visual Inspection</p> <p>Visual Inspection includes the weld size and appearance.</p> <p>Direct - Exam (Course)</p> <p><i>Specialization Lab: WELD 1629</i></p> <p>Target</p> <p>80% of students achieve an average score of 4 on the Visual Inspection component of the capstone project.</p>	<p><i>No results have been added.</i></p>	<p><i>No actions have been added.</i></p>
<p>Layout</p> <p>Layout scoring is based on how many mistakes and dimension errors occur.</p> <p>Direct - Exam (Course)</p> <p><i>Specialization Lab: WELD 1629</i></p> <p>Target</p> <p>80% of students achieve an average score of 4 on the Layout section of the capstone project.</p>	<p><i>No results have been added.</i></p>	<p><i>No actions have been added.</i></p>
<p>Leaks</p> <p>Leaks scoring is based on how many leaks are counted during inspection.</p> <p>Direct - Exam (Course)</p> <p><i>Specialization Lab: WELD 1629</i></p> <p>Target</p> <p>80% of students achieve an average score of 4 on the Leaks section of the capstone</p>	<p><i>No results have been added.</i></p>	<p><i>No actions have been added.</i></p>

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<p>project.</p>		
<p>Efficiency</p> <p>Students earn a point if they complete the capstone project within the 20-hour time limit.</p> <p>Direct - Exam (Course)</p> <p><i>Specialization Lab: WELD 1629</i></p> <p>Target</p> <p>80% of students receive a point for completing the capstone project within allotted time.</p>	<p><i>No results have been added.</i></p>	<p><i>No actions have been added.</i></p>
<p>Accountability</p> <p>Inspection Hold Point: Students are responsible for meeting with their instructor at each hold point during the capstone project.</p> <p>Time: Students are responsible for completing time sheets.</p> <p>Direct - Exam (Course)</p> <p><i>Specialization Lab: WELD 1629</i></p> <p>Target</p> <p>80% of students earn 2 points for the Inspection Hold Point and Time elements of the capstone project.</p>	<p><i>No results have been added.</i></p>	<p><i>No actions have been added.</i></p>
<p>Safety</p> <p>Students follow all safe practice procedures and use the appropriate protective equipment.</p> <p>Direct - Exam (Course)</p> <p><i>Specialization Lab: WELD 1629</i></p> <p>Target</p> <p>80% of students earn a point for the Safety element of the capstone project.</p>	<p><i>No results have been added.</i></p>	<p><i>No actions have been added.</i></p>