

The certificate of proficiency and the technical certificate programs give the student the opportunity to earn certificates while completing steps toward an Associate of Applied Science degree.

2022-2023



**TECHNICAL CERTIFICATE PLAN**  
**WELDING**

**Degree Code: 0509; CIP Code: 48.0508**

All technical certificate-seeking students must meet the freshman assessment and placement requirements. If deficiencies exist, the student must complete the required CPT courses.

**A 2.0 GPA is required for graduation from the Technical Certificate in Welding program.**

**ATTENTION STUDENTS: PLEASE SEE CURRENT CATALOG FOR ALL FEES AND CHARGES ASSOCIATED WITH THIS CERTIFICATE.**

This program is designed to provide students with job-ready welding skills and the opportunity to earn various welder certifications recognized by local industry. Visit [asumh.edu/ge\\_weld](http://asumh.edu/ge_weld) for gainful employment information.

**Student Learning Outcomes for TC Welding Program**

1. Demonstrate safe and proper use of welding, cutting and grinding equipment.
2. Demonstrate the ability to make accurate measurements to within 1/16" tolerance using a tape measure and utilize essential mathematic concepts required in the welding, fabrication, and manufacturing industries.
3. Read and interpret fabrication blueprints to create layouts to specifications.
4. Identify and select suitable welding consumable materials and set up and operate welding equipment in such a manner as to produce a quality weld in accordance with established industry standards.
5. Identify the cause of various weld defects including slag inclusions, porosity, undercut and cracking.

Name: \_\_\_\_\_  
Advisor: \_\_\_\_\_

Date: \_\_\_\_\_  
Student ID# \_\_\_\_\_

<u>COURSE CODE</u>	<u>COURSE NAME</u>	<u>CREDIT HOURS</u>	<u>HOURS COMPLETED</u>
<b>General Education</b> (6 credit hours)			
ENG 1003	Composition I (must earn a "C" or better)	3	_____
MATH 1113	Applied Math or higher-level mathematics course	3	_____
<b>Welding Core</b> (24 credit hours)			
TECH 1012	Employment Strategies	2	_____
TECH 1032	Blueprints and Layouts	2	_____
TECH 1044	Computer Aided Design (CAD)	4	_____
WELD 1024	Shielded Metal Arc Welding (SMAW)	4	_____
WELD 1204	Gas Metal Arc Welding (MIG)	4	_____
WELD 1404	Gas Tungsten Welding (TIG)	4	_____
<b>Welding Elective</b> (4 credit hours)			
WELD _____	_____	4	_____
<b>Program Total 30 Hours</b>			