



WELDING TECHNOLOGY

A.A.S. DEGREE/CERTIFICATE



Study to Become a Welding Technician

The Welding Technician profession is woven into a multitude of businesses which require these skilled professionals to work in a variety of industries including energy, construction, and manufacturing. The nation's aging infrastructure will require the expertise of welders, cutters, solderers, and brazers to help rebuild bridges, highways, and buildings.

Career Opportunities

The Bureau of Labor and Statistics (BLS) reported Employment of Welders is projected to grow 3 percent from 2019 to 2029, much faster than the average for all occupations. The median annual wage for Welders, cutters, solderers, and brazers was \$42,490 in 2019.

According to Texas Wages and Employment Projections for the Gulf Coast, including Brazoria County, the projected employment is 64155 with 7183 average openings. This includes hourly wages of \$24.09 and annual wages of \$50,100. Labor Market & Career Information (LMCI) reports the salary for the Houston region is \$50,100 annually.

What Will I Study?

This program provides over 1500 contact hours of welding theory and hands on training and is tailored to meet industry standards. It will provide students with a well-rounded set of welding skills that will help most enter the workforce in entry level positions. Students have the opportunity to earn National Center for Construction Education and Research (NCCER) credentials, an AWS ASME IX 6G certification (Industry standard test required for employment and certification), while earning a Level 1 Certificate, Level 2 Certificate and AAS degree. Students learn to weld in both an indoor and outdoor laboratory environment.

For More Information:

Website: www.alvincollege.edu/welding-technology

Phone: 281.756.3671

Email: weldingtech@alvincollege.edu

ASSOCIATE OF APPLIED SCIENCE DEGREE – 60 CREDIT HOURS

FIRST YEAR - FIRST SEMESTER	CREDITS
WLDG 1323 - Welding Safety, Tools, and Equipment	3
WLDG 1200 - Introduction to Welding	2
WLDG 1428 - Introduction to Shielded Metal Arc Welding (SMAW)	4
WLDG 1313 - Introduction to Blueprint Reading for Welders	3
+MATH 1332 - Contemporary Mathematics (Quantitative Reasoning)	3
SECOND SEMESTER	
WLDG 1457 - Intermediate Shielded Metal Arc Welding (SMAW)	4
WLDG 1307 - Introduction to Welding Using Multiple Processes	3
WLDG 1434 - Introduction to Gas Tungsten Arc Welding (GTAW)	4
+ENGL 1301 - Composition I	3
THIRD SEMESTER	
WLDG 1430 - Introduction to Gas Metal Arc (GMAW) Welding	4
+SPCH 13XX - Public Speaking or Interpersonal Communication or Argumentation & Debate	3
SECOND YEAR - FIRST SEMESTER	
WLDG 1435 - Introduction to Pipe Welding	4
WLDG 1353 - Intermediate Layout & Fabrication	3
WLDG 2413 - Intermediate Welding Using Multiple Processes	4
+Select from Social & Behavioral Sciences Core Curriculum	3
SECOND SEMESTER	
WLDG 2406 - Intermediate Pipe Welding	4
*WLDG 2380 - Cooperative Education-Welding Technology/Welder or *WLDG 2371 - Advanced Welding Technology Final Project	3
+Select from Creative Arts Core Curriculum or +Language, Philosophy & Culture Core Curriculum	3
CREDIT HOURS	60

CERTIFICATE II – 45 CREDIT HOURS

FIRST YEAR - FIRST SEMESTER	CREDITS
WLDG 1323 - Welding Safety, Tools, and Equipment	3
WLDG 1200 - Introduction to Welding	2
WLDG 1428 - Introduction to Shielded Metal Arc Welding (SMAW)	4
WLDG 1313 - Introduction to Blueprint Reading for Welders	3
SECOND SEMESTER	
WLDG 1457 - Intermediate Shielded Metal Arc Welding (SMAW)	4
WLDG 1307 - Introduction to Welding Using Multiple Processes	3
WLDG 1434 - Introduction to Gas Tungsten Arc Welding (GTAW)	4
THIRD SEMESTER	
WLDG 1430 - Introduction to Gas Metal Arc (GMAW) Welding	4
SECOND YEAR - FIRST SEMESTER	
WLDG 1435 - Introduction to Pipe Welding	4
WLDG 1353 - Intermediate Layout and Fabrication	3
WLDG 2413 - Intermediate Welding Using Multiple Processes	4
SECOND SEMESTER	
WLDG 2406 - Intermediate Pipe Welding	4
*WLDG 2380 - Cooperative Education-Welding Technology/Welder or *WLDG 2371 - Advanced Welding Technology Final Project	3
CREDIT HOURS	45

CERTIFICATE I – 23 CREDIT HOURS

FIRST YEAR - FIRST SEMESTER	CREDITS
WLDG 1323 - Welding Safety, Tools, and Equipment	3
WLDG 1200 - Introduction to Welding	2
WLDG 1428 - Introduction to Shielded Metal Arc Welding (SMAW)	4
WLDG 1313 - Introduction to Blueprint Reading for Welders	3
SECOND SEMESTER	
WLDG 1457 - Intermediate Shielded Metal Arc Welding (SMAW)	4
WLDG 1307 - Introduction to Welding Using Multiple Processes	3
WLDG 1434 - Introduction to Gas Tungsten Arc Welding (GTAW)	4
CREDIT HOURS	23

+ Denotes core requirement. Speak with Department Chair or Academic Advisor for proper course selection.
* Capstone Course

*PROGRAM COSTS

Approximate yearly costs for the Level I Certificate program are \$3,451 for in-district students and \$3,832 for those out-of-district. This includes tuition and fees.

**Alvin Community College may change tuition rates and other fees without notice or when directed by the Board of Regents.*