

WELDING TECHNOLOGY AAS



A Program Overview of the Energy, Manufacturing & Construction Area of Study

Updated as of May 2018



The associate of applied science degree in welding technology is designed to prepare the individual for a career as a welding technician in the fabrication, construction and manufacturing industries. The program includes hands-on application of SMAW, GTAW, GMAW, and FCAW processes, in all positions, using pipe, plate and structural shapes. The student is also exposed to basic metallurgy and inspection procedures. The academic requirements of the program provide the foundation for continued studies should the student desire to continue his or her education.

The welding technology certificate program prepares the student for entry-level employment as a structural welder. The program provides the essential skills and safety practices in arc welding procedures in both structural plate and pipe. Courses completed in this certificate program may be applied toward the welding technology associate of applied science degree.

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Programs At-A-Glance

Welding Technology AAS

Available at LSC-Cypress Center, LSC-North Harris, LSC-Victory Center, LSC-Conroe Center, and LSC-Montgomery

LoneStar.edu/Welding-Technology-AAS

¹ **Median Wage:** \$41,354

Shielded Metal Arc Welding Certificate Level I

LoneStar.edu/SMAW-Certificate

Gas Metal Arc Welding Certificate Level I

LoneStar.edu/GMAW-Certificate

Gas Tungsten Arc Welding Certificate Level I

LoneStar.edu/Gas-Tungsten-Arc-Welding-Certificate

Pipe Welding Certificate Level I

LoneStar.edu/Pipe-Welding-Certificate

¹ **Wage Data** is based on annual salaries from Bureau of Labor Statistics, U.S. Department of Labor, Occupational Employment Statistics, 2016, www.bls.gov/oes.

LoneStar.edu/Welding-Technology-AAS

Non-Credit Certificate

Certificate I (Options) 16 or 30 Credits

AAS Degree 60 Credits

Corporate College

Welding Master
Gas Metal Welder (GMAW)
Gas Tungsten Welder (GTAW)
Shielded Metal Welder (SMAW)
Pipe Welder

Shielded Metal Arc Welding Certificate
Gas Metal Arc Welding Certificate
Gas Tungsten Arc Welding Certificate
Pipe Welding Certificate
Layout & Fabrication Welding Certificate

Introduction to Welding Fundamentals
Introduction to Layout and Fabrication
Introduction to Shielded Metal Arc Welding (SMAW)
Intermediate Shielded Metal Arc Welding (SMAW)
Intro to Gas Tungsten Arc Welding (GTAW)
Advanced Gas Tungsten Arc Welding
Intro to Gas Metal Arc Welding (GMAW)
Advanced Gas Metal Arc Welding

Introduction to Pipe Welding
Advanced Pipe Welding
Composition & Rhetoric I
College Math for Liberal Arts
Introduction to Computers
Social/Behavioral Sciences
Speech Elective
Creative Arts/Language, Philosophy & Culture
Special Topics in Welder/Welding Technologist

Professional development opportunities are available for additional training and licensure.



Representative career titles and job positions for this program plan include:

- **Maintenance Welder**
- **Welder/Fabricator or Welder²**

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²Position titles vary by employer and location.

Complete your Welding Technology AAS in 2 years!

For more information on gainful employment, visit LoneStar.edu/GainfulEmployment.