WELDING TECHNOLOGY, ASSOCIATE OF APPLIED SCIENCE

Program Information

In Texas, industries and communities are growing, especially in the petrochemical areas. As construction rates rise, so does the demand for talented welders. The US Bureau of Labor Statistics reports that the need for welders is expected to grow by 26 percent by 2020.

Welding is a process for permanently joining metals together by use of an electric-arc to melt a filler-metal into the original metal to make the two pieces as one. Welding can include joining parts such as piping, structural steel, steel plates, pressure vessels, or even small parts; and it can be performed on carbon steel, stainless steel, aluminum, and many other metals. Welding takes the skill and talent of an artist, and that skill can be acquired through training and discipline.

A welder may also be required to cut, contour, and bevel metal plates and structural shapes into dimensions as specified by blueprints, work orders, and templates using torches, saws, shears, or other machine tools.

San Jacinto College offers one of the largest and best-equipped welding training facilities in the region, where students can explore many facets of welding technology and gain access to career paths from manufacturing and industry to inspection and management.

The San Jacinto College welding technology program:

- Has a curriculum designed to meet the needs of the welding industry;
- Provides instruction for all positions on carbon and stainless steel plate and pipe, using the following multiple processes: Shielded Metal Arc Welding (SMAW) “Stick,” Gas Metal Arc Welding (GMAW) “MIG,” Gas Tungsten Arc Welding (GTAW) “TIG,” and Flux Cored Arc Welding (FCAW) processes, plus Oxy-Fuels;
- Offers certificates and continuing education courses for students who want to go directly into the workforce; and
- Includes an Associate of Applied Science (AAS) degree with academic courses to make a well-rounded individual to meet the needs of industry and continued opportunities

Earning Potential

Welder, Cutter, Solderer and Brazer

Overall: $47,876 per year ($23.02 hr)[1]

American Welding Society (AWS) Certification Wages

- Welder $20.38 hr[2]
- Pipe Welder $27.12 hr[2]
- Structural Welder $19.13 hr[2]

1 Source: texaswages.com (http://texaswages.com), median salary Gulf Coast region, 2019

2 American Welding Society (AWS) Payscale Research, 2020

For more information, students may contact the following:

Central campus: 281-476-1814 or 281-478-2799

North campus: 281-998-6150, x7639

Campuses

Central Campus
North Campus