



# Welding Technology

The Welding Technology program at Tri-County Tech provides training in a variety of areas including:

- Arc welding
- MIG welding
- Dual-shielded, flux-cored arc welding
- TIG welding
- Plasma, acetylene, and carbon arc cutting
- Fabrication

Your courses provide hand-on opportunities to learn basic and advanced welding techniques. When you graduate, you'll be able to weld steel, stainless steel, and aluminum in structural and pipe applications. Your knowledge will help you meet the qualifications to find employment in construction or metalworking.

[Learn more about program requirements](#) and related certificates. Scroll to the degree program and select “display programs.”

## PLUS »



Eleven of the 13 required courses are lab-based with 98% of the work being hands-on



Tri-County's program is taught in a state-of-the-art, world-class health- and safety-focused facility unmatched in the southeast. It is designed to mimic a typical industrial facility. The modern equipment is in line with industry and evolving technology.



Advanced challenges built into each course to further develop skills related to work place requirements like confined space work, and working at elevation



The comprehensive training program provides a wide variety of applications and job opportunities, including fabrication, mechanical contractors, pipe welders, pipe liners, boilermakers and construction.

# Career Outlooks and Average Salaries

## CONNECT WITH US

### Program Director

Paul Phelps  
Telephone: (864) 646-1405  
Email: [pphelps@tctc.edu](mailto:pphelps@tctc.edu)

### Academic Resource Specialist

Brittany Talbert  
Telephone: (864) 646-1517  
Email: [btalbert@tctc.edu](mailto:btalbert@tctc.edu)

### Division Office

(864) 646-1375  
[eit@tctc.edu](mailto:eit@tctc.edu)

[TCTC.edu/APPLY](https://www.tctc.edu/APPLY)

SC Wins Eligible



| Job Title                               | What You Do   | Salary   |          |          | # Job Openings |
|---|---|----------|----------|----------|----------------|
|   |   | Entry    | Median   | Skilled  |                |
| Maintenance and Repair Workers, General | Perform work involving the skills of two or more maintenance or craft occupations to keep machines, mechanical equipment, or the structure of an establishment in repair. Duties may involve pipe fitting; boiler making; insulating; welding; machining; carpentry; repairing electrical or mechanical equipment; installing, aligning, and balancing new equipment; and repairing buildings, floors, or stairs. | \$23,240 | \$37,270 | \$59,675 | 1,113          |

|                                      |   |          |          |          |     |
|--------------------------------------|---|----------|----------|----------|-----|
| Welders, Cutters, and Welder Fitters | Use hand-welding or flame-cutting equipment to weld or join metal components or to fill holes, indentations, or seams of fabricated metal products. | \$28,217 | \$40,804 | \$60,884 | 426 |
|--------------------------------------|---|----------|----------|----------|-----|

|                               |   |          |          |          |     |
|-------------------------------|---|----------|----------|----------|-----|
| Pipe Fitters and Steamfitters | Lay out, assemble, install, or maintain pipe systems, pipe supports, or related hydraulic or pneumatic equipment for steam, hot water, heating, cooling, lubricating, sprinkling, or industrial production or processing systems. | \$25,723 | \$40,601 | \$67,418 | 250 |
|-------------------------------|---|----------|----------|----------|-----|

|                     |  |          |          |          |    |
|---------------------|--|----------|----------|----------|----|
| Sheet Metal Workers | Fabricate, assemble, install, and repair sheet metal products and equipment, such as ducts, control boxes, drainpipes, and furnace casings. Work may involve any of the following: setting up and operating fabricating machines to cut, bend, and straighten sheet metal; shaping metal over anvils, blocks, or forms using hammer; operating soldering and welding equipment to join sheet metal parts; or inspecting, assembling, and smoothing seams and joints of burred surfaces. Includes sheet metal duct installers who install prefabricated sheet metal ducts used for heating, air conditioning, or other purposes | \$24,064 | \$30,643 | \$50,957 | 81 |
|---------------------|--|----------|----------|----------|----|

|  |  |          |          |          |    |
|--|--|----------|----------|----------|----|
| Welding, Soldering, and Brazing Machine Setters, Operators and Tenders | Set up, operate, or tend welding, soldering, or brazing machines or robots that weld, braze, solder, or heat treat metal products, components, or assemblies. Includes workers who operate laser cutters or laser-beam machines. | \$27,532 | \$38,592 | \$51,804 | 41 |
|--|--|----------|----------|----------|----|

|                       |   |          |          |          |     |
|-----------------------|---|----------|----------|----------|-----|
| Solderers and Brazers | Braze or solder together components to assemble fabricated metal parts, using soldering iron, torch, or welding machine and flux. | \$28,217 | \$40,804 | \$60,884 | 426 |
|-----------------------|---|----------|----------|----------|-----|

|                                   |   |          |          |          |    |
|-----------------------------------|---|----------|----------|----------|----|
| Structural Iron and Steel Workers | Raise, place, and unite iron or steel girders, columns, and other structural members to form completed structures or structural frameworks. May erect metal storage tanks and assemble prefabricated metal buildings. | \$29,670 | \$42,421 | \$74,415 | 41 |
|-----------------------------------|---|----------|----------|----------|----|