



Welding Technology

The Welding program prepares the student for certification in a variety of welding techniques and processes. Students begin doing basic welding beads and progress step-by-step to achieve the final goal of pipe welding. Progression is monitored and mastery of each technique is achieved by a combination of classroom, individual, and text book instruction. Graduates of the Welding program will be able to demonstrate competencies in flame cutting, electric ARC welding, gas tungsten, gas metal ARC welding, and flux-cored ARC welding processes.

Program/Location	Length	Days	Time
Anderson County Higher Education Center	12 Months	Monday—Friday	8:00 am—2:30 pm
Anderson County Higher Education Center	12 Months	Monday—Friday	3:30 pm—10:00 pm
Knoxville Campus	12 Months	Monday—Friday	8:00 am—2:30 pm
Knoxville Campus	12 Months	Monday—Friday	3:30 pm—10:00 pm
Oak Ridge High School	14 Months	Monday—Thursday	4:00 pm—10:00 pm
Ruth and Steve West Workforce Dev. Center	12 Months	Monday—Friday	8:00 am—2:30 pm

Curriculum/Courses	Completion Awards	Required Hours
WEL 0001 Worker Characteristic	Shielded Metal Arc Welder	Certificate 432
WEL 1010 Technology Foundations	Gas Metal Arc Welder	Certificate 864
WEL 1020 Shop Orientation and Safety	Gas Tungsten Arc Welder	Certificate 1296
WEL 1030 Cutting Processes	Combination Welder	Diploma 1296
WEL 1040 Basic Shielded Metal Arc Welding		
WEL 1050 Advanced Shielded Metal Arc Welding		
WEL 0002 Worker Characteristic	Completion Rate 2021: 97%	
WEL 2010 Blue Print Theory	Placement Rate 2021: 97%	
WEL 2020 Basic Gas Tungsten Arc Welding		
WEL 2030 Basic Gas Metal Arc Welding		
WEL 2040 Advanced Gas Metal Arc Welding		
WEL 0003 Worker Characteristic		
WEL 3010 Blue Print Reading		
WEL 3020 Advanced Gas Tungsten Arc Pipe Welding		

Typical Job Opportunities

Construction
Manufacturing
Pipe Lines

HOW TO APPLY

All Documents Must be Presented Together to Apply

- ⇒ Complete the **Free Application For Federal Student Aid (FAFSA)** online – the website is www.studentaid.gov and our school code is 004025.
- ⇒ Complete **TCAT Knoxville Application for Enrollment** online at www.tcatknoxville.edu and select **APPLY NOW**