

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
Day Program	TCAT Knoxville Main Campus	12 Months	Monday-Friday	8:00 am—2:30 pm
Day Program	TCAT Knoxville at Anderson County Campus	12 Months	Monday-Friday	8:00 am—2:30 pm
Day Program	PSCC Strawberry Plains Campus	12 Months	Monday-Friday	8:00 am—2:30 pm
Night Program	TCAT Knoxville Main Campus	12 Months	Monday-Friday	3:30 pm—10:00 pm
Night Program	Oak Ridge High School	14 Months	Monday-Thursday	4:00 pm—10:00 pm

Curriculum/Courses		Completion Award	Required Hours
WEL 0001	Worker Characteristic		
WEL 1010	Technology Foundations	Shielded Metal Arc Welder	Certificate 432
WEL 1020	Shop Orientation & Safety	Gas Metal Arc Welder	Certificate 864
WEL 1030	Cutting Processes	Gas Tungsten Arc Welder	Certificate 1296
WEL 1040	Basic Shielded Metal Arc Welding	Combination Welder	Diploma 1296
WEL 1050	Advanced Shielded Metal Arc Welding		
WEL 0002	Worker Characteristic		
WEL 2010	Blue Print Theory		
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.fafsa.ed.gov and our school code is 004025.
- ⇒ Complete **TCAT Knoxville Application for Enrollment** online at <https://apply.tbr.edu/?tcat=knoxville>