TENNESSEE COLLEGE OF APPLIED TECHNOLOGY
KNOXVILLE

1100 Liberty Street | Knoxville, TN 37919
T: 865-546-5567 | F: 865-971-4474
www.tcatknoxville.edu

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
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

WEL 0001	Worker Characteristic
WEL 1010	Technology Foundations
WEL 1020	Shop Orientation & Safety
WEL 1030	Cutting Processes
WEL 1040	Basic Shielded Metal Arc Welding
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

Completion Award		Required Hours
Shielded Metal Arc Welder	Certificate	432
Gas Metal Arc Welder	Certificate	864
Gas Tungsten Arc Welder	Certificate	1296
Combination Welder	Diploma	1296

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 www.tcatknoxville.edu and select APPLY NOW