

PIPE WELDING TECHNOLOGY

Technical Certificate: 35 Credits

Certificates of Proficiency: 8 Credits Each

TECHNICAL CERTIFICATE	HOURS
<i>TECH1113 Workplace Writing*</i>	3
<i>TECH1003 Technical Math**</i>	3
TECH1203 Technical Success Strategies	3
PIPE2204 FCAW	4
PIPE2104 GMAW	4
PIPE2404 GTAW-Low Alloy and Stainless Steel	4
PIPE2304 GTAW-Carbon Steel	4
PIPE2108 SMAW	8
PIPE2208 SMAW-Stainless Steel	8

CERTIFICATES OF PROFICIENCY	HOURS
GTAW – 8 Credits	
PIPE2304 GTAW-Carbon Steel	4
PIPE2404 GTAW-Low Alloy and Stainless Steel	4
SMAW – 8 Credits	
PIPE2108 SMAW	8
SMAW-Stainless Steel – 8 Credits	
PIPE2208 SMAW-Stainless Steel	8
GMAW/FCAW – 8 Credits	
PIPE2104 GMAW	4
PIPE2204 FCAW	4

Score Requirements			
Subject	Next Gen	ACT	Accuplacer
Reading	230	17	78
Writing	255	17	83
Math	240	17	30

***TECH1113 Workplace Writing is required if Reading and Writing scores are lower than required scores. Student must score above in both areas to test out of Workplace Writing.**

****If Math scores are lower than the required score, TECH1003 Technical Math is required. Reading scores are required for Technical Math. If Reading scores are below what is required, Workplace Writing is a co-req to Technical Math.**

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INFORMATION: Students must complete a Technical Certificate in Welding Technology prior to entering the Pipe Welding Certificate program.

National Center for Construction Education and Research (NCCER) curriculum, adopted curriculum for all Arkansas state supported programs, has been prepared in cooperation with American Welding Society (AWS) standards and supports learning objectives from the AWS Advanced and Expert Welder Programs.

GTAW pipe welding is by far the most complicated and time consuming of all welding techniques. One of the lesser-known techniques of the GTAW method, called cup walking, offers consistent quality welds while creating minimum operator fatigue. Considerations and techniques necessary to develop the skill of cup walking, including details regarding filler metals, cup changing, and power sources, will be taught in this program.

SMAW pipe welding is the most common method used in pipeline welding and is the basis used for developing the skills required in the other pipe welding processes. Certification in this technique will qualify welders for high placement and high levels of pay.

SMAW-stainless steel pipe welding is a more advanced method of welding than SMAW-carbon steel and requires special training specific to stainless steel metals which can lead to even higher pay. Not as many jobs are available for these special needs technique but working conditions are often in a controlled environment.

GMAW and FCAW pipe welding technicians are becoming more sought after by business and industry in manufacturing processes. These methods lend themselves to faster production for assembly type production. Demand is high for this process of welding.

CAREER OPTIONS: This is an advanced welding program designed to prepare graduates for employment in pipe welding related jobs and/or higher paying jobs in general welding positions. Students are strongly encouraged to complete the Associate of Applied Science in Skilled and Technical Sciences.