

Community College of Allegheny County

Welding Technology Certificate Program

The **Welding Technology Certificate** program provides students with entry-level skills in both flat and pipe welding, and blueprint reading. Students in this certificate program are eligible to take individual AWS, SMAW, ASME, and API Certification Tests. Students may find employment as welders, fabricators, grinders or in the gas and oil industry.

Students in the Welding Technology Certificate Program acquire skills in:

- Utilizing safety procedures and theory of Shielded Metal Arc Welding Processes
- Utilizing multi-layered welds in different weld joints and weld positions
- Operating oxy-fuel cutting and brazing equipment safety
- Identifying and interpreting blueprints and basic weld (AWS) symbols
- Demonstrating Gas Metal Arc Welding, Gas Tungsten Arc Welding, Flux Core Arc Welding processes and the safety and setup procedures for metals, i.e., aluminum, stainless steel, and carbon steel
- Apply safety procedures and theory of the Shielded Metal Arc Welding processes.
- Utilize multi-layered welds in different weld joints and weld positions.
- Make a shielded metal- arc weld on schedule 80 pipe in a fixed 6G position.
- Transition pipe welding skills to the downhill process using specialized electrodes.



Eligible for PELL and PHEAA Funding

Certificate Requirements: 1 ST Semester	Credits
WLD101: Welding Fundamentals	3
WLD102: Advanced Welding	3
WLD107: Blueprint Reading for Welders	3
WLD201: Preparation for Weld Certification	3
WLD202: MIG and TIG Processes	3
Total Semester Credits	15

Certificate Requirements: 2 ND Semester	Credits
WLD221: Brazing and Welding	3
WLD-222 Pipe Welding 1- Basic	3
WLD-223 Pipe Welding 2- Advanced	3
WLD-224 Pipe Welding 3- Downhill	3
Total Semester Credits	12
Total Program Credits	27

Class size is limited. To register or for questions, please call the Keystone Community Education Council at 814-677-4427.



The Welding Technology Certificate Program is being offered through a partnership with the Keystone Community Education Council, the Community College of Allegheny County, your local technical center and the Appalachian Regional Commission