

Careers in Trades and Apprenticeships

Welding Technology

Certificate & Associate of Science • West Hills Center

The Welding Technology program is designed to train individuals for employment in the welding technology industry. CCAC's program is available with both an associate's degree and certificate option.

Students have the opportunity to become certified welders using American Welding Society's (AWS) and American Society of Mechanical Engineers (ASME) codes and standards. Increasingly, most welding jobs now require welders be certified. For individuals pursuing certification or an associate's degree, graduates may seek employment as a welder, welding shop supervisor or as an advanced certified welder.

The program exposes students to different welding processes, including shielded metal-arc welding, gas tungsten-arc welding, gas metal-arc welding, plasma cutting, carbon gouging, oxy fuel cutting and brazing as well as welding on metals such as mild steel, stainless steel and aluminum.

The "Fast Track" Welding Technology program gives full-time students an opportunity to become certified welders in one 16-week semester. Available as a day or evening program, credit for courses may be awarded for work completed at an area vocational, technical or trade school or in the military.



Graduates of both the certificate and associate's degree programs are eligible to take the AWS Weld Certification examination. All exams are administered by a third-party examiner and conducted onsite at the CCAC Welding Lab.

Employment prospects for those entering the field continue to be strong. The U.S. Department of Labor, Bureau of Labor Statistics lists more than 125 occupations related to the welding and joining processes.

For more information on **CCAC's Welding Technology program**, please call 412.788.7500.

CCAC West Hills Center
1000 McKee Road
Oakdale, PA 15071

www.ccac.edu

Welding Technology



More than 92% of CCAC graduates live and work in our region.

CERTIFICATE REQUIREMENTS

First Semester		Credits
WLD101	Welding Fundamentals	3
WLD102	Advanced Welding	3
WLD107	Blueprint Reading for Welders	3
WLD201	Preparation for Weld Certification	3
WLD202	MIG & TIG Processes	3
WLD221	Brazing & Welding	3
Minimum credits required to graduate		18

ASSOCIATE'S DEGREE REQUIREMENTS

First Semester		Credits
MAT191	Mathematics for the Industries	3
PSY116*	Organizational Psychology	3
WLD101	Welding Fundamentals	3
WLD102	Advanced Welding	3
WLD107	Blueprint Reading for Welders	3
Second Semester		
MCT274	Introduction to NC/CNC Technology	4
PHY113	Technical Physics 1	3
WLD201	Preparation for Weld Certification	3
WLD211	Welding Inspection	3
	General Elective	3
Third Semester		
ENG101	English Composition 1	3
MMT130	Job Safety & First Aid	1
SET105	Technical Computing	3
SPH101	Oral Communication	3
WLD202	MIG & TIG Processes	3
WLD222	Pipe Welding Basic	3
	General Elective	3
Fourth Semester		
ENG103	Technical Communications	3
WLD221	Brazing & Welding	3
WLD223	Pipe Welding 2 Advanced	3
	General Elective	3
Minimum credits required to graduate		62

**Formerly PSY215*

All information is correct as of date of publication. However, some curriculum requirements may have changed since publication. Please consult the CCAC website at www.ccac.edu to view complete program descriptions and the latest curriculum changes, including information on course prerequisites.