



## Program of Study (POS): Welding Technology

### Classification of Instructional Program (CIP): CIP 48.0508

Topic	Information	Resources
<b>Classroom tests</b>	Written, Multiple-choice, Safety, Measurements / layout. Industry math tests	
<b>Midterm and/or final exams</b>	Final written examinations and a State assessment test; written and performance sections of the NOCTI for 12th grade students, that are eligible.	
<b>Industry certification tests and costs</b>	S/P2-Welding; Safety Training OSHA 30/ Safety Training AWS Welder Qualification/Certification Offered with instructor recommendation and meeting required criteria.	
<b>Number of books</b>	Welding: Principles and Applications, 9th Edition	<b>Author:</b> Larry Jeffus <b>Publisher:</b> Cengage Learning
<b>Direct instruction (%)</b>	10% Theory 90% Performance	Theory room Shop/Lab
<b>Cooperative education</b>	Available to students who qualify, typically individuals in their 3rd year and in grade 12. Must be 17 years old.	Mrs. Stacey Caudill, Work-Based Learning Coordinator: 412.469.3200, x2542
<b>Homework</b>	NONE at this time	
<b>Task list</b>	CIP 48.0508	PDE <a href="http://www.education.pa.gov">www.education.pa.gov</a> (search "CIP POS task lists")
<b>Prerequisites</b>	Completion of grade 9	
<b>Reading levels</b>	End of 9 <sup>th</sup> grade level	
<b>Math levels</b>	End of 9th grade level	
<b>Program requirements and related costs (required and optional)</b>	Work boots (steel toes not required), Fire rated shirt and pants or 100% cotton pants/12oz. denim pants, long sleeve shirt- 100% cotton, welders' cap. Long sleeve fire rated jacket, welders' gloves, welding helmet and cutting goggles. Safety glasses will be issued. Approximate cost: \$100.00 to \$150.00	Jackson Welding Supply, & Airgas Store offers starter kits at a reasonable price. Mention Steel Center.
<b>Dual enrollment</b>	NONE at this time	Mr. Shannon Hinkle, Counselor: 412.469.3200, x2517
<b>Articulation agreements</b>	Rosedale Technical Institute, Community College of Allegheny County	Mr. Shannon Hinkle, Counselor: 412.469.3200, x2517
<b>Essential aptitudes and skills</b>	Basic math, blueprint reading and reading skills required. Must have manual dexterity, good eyesight and good eye- hand coordination. Ability to concentrate on detailed work for long periods. Must be able to handle, position, move materials and lift up to 50 lbs.	
<b>Work environment</b>	Work in noisy/dusty atmospheres with high ambient temperatures. Long periods of standing. Work in awkward positions, including bending, stooping, or working overhead. Power equipment operation and power hand tools.	