



The Welding Technology Program provides students with instruction on various joining technologies used in a variety of metal products. Students learn to use a variety of welding processes, equipment and techniques. During class and lab experience students learn welding metallurgy, welding manipulative skills and gain practical metal fabrication skills via hands on experience. This course offers students the knowledge necessary to enter or continue education in the many careers associated with the materials joining technology field.

Qualified students can earn college credit towards through the Pennsylvania College of Technology.

Major Units of Study

- Blueprint reading
- Gas Metal Arc Welding (GMAW)
- Oxyfuel Gas Cutting (OFC)
- Plasma Arc Cutting (PAC)
- Shield Metal Arc Welding (SMAW)
- Tungsten Inert Gas Welding (TIG)

Certifications

Welding certifications can be obtained through the American Welding Society.

Did you know?

There will be a shortage of 250,000 welding jobs by the year 2010.

Opportunities exist to start your own welding business

Related Careers

- Iron Worker (Building/Bridges)
- Manager/Supervisor
- Materials Joining Lab Technician
- Metal Fabricator, Underwater Welding
- Precision Welding (Aerospace, Marine, Exotic Metals)
- Quality Control Manager
- Steam Fitter, Pipe and/or Pipeline Welder
- Welding Equipment Repair Technician
- Welding Engineer, Welding Inspector

Post-Secondary

- Apprentices Programs
- Colleges
- Military Services
- On-the-job Training
- Technical Schools



COMPLETER: *Welding Technology* CREDITS: 6

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule.	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
	World Language (1)	World Language (1)		
Completer Program Requirements			Welding Technology I (3)	Welding Technology II (3)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Advanced Design Applications (1), Technological Design (1), Math Elective beyond Alg. 11/DA (.5-1), Business Principles & Practices (1), Business Communications & Keyboarding (1), Financial Management Using Software Applications (1), Work-Based Learning Experience (.5-1)			
8 credits possible per year				
Value Added: From:	Up to 1 year toward Apprenticeship Associate Builders & Contractors		American Welding Society (AWS) Certification	
End of Program Test: Industry: Taken:	NCCT Academic Core v2 National Center for Construction Education and Research (NCCER) At the end of Welding I		NCCT Academic Welding National Center for Construction Education and Research (NCCER) At the end of Welding II	

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