

ABOUT THE SHOP

Warren Tech's Welding Program offers exceptional training on the industry's latest equipment and technology. Students learn the necessary skills to achieve quality welds, using the Shielded Metal Arc Welding, Gas Metal Arc Welding, Flux Cored Arc Welding, and Gas Tungsten Arc Welding Processes. Concurrently, students learn several cutting processes which include Oxyfuel, Plasma, and Carbon Arc Cutting. The lab is equipped with several state of the art machines which include, but are not limited to, a Hydraulic Shear, Band-Saws, Sheet Metal Rollers, CNC Plasma Cutter, and a Metal-Capable 3D Printer. Juniors and Seniors can work with local industry members through the CIE Program. Students leave with several welding certifications along with Forklift Operation.



CERTIFICATIONS/COLLEGE CREDIT EARNED

- American Welding Society (AWS) SENSE
- 10 Hour OSHA Careersafe
- 30 Hour OSHA Certification
- Forklift Certification
- AWS Structural Certifications
- Northampton Community College (12 Credits - Associate's Degree in Welding Technology)

CAREER PATHWAYS

- Welding Fabricator
- Ironworker
- Sheet Metal Worker
- Pipeline Welder
- Manufacturing
- Welding Inspector
- NDT Technician
- Sales
- Military Options
- Welding Engineer (Requires 4-year Degree)
- Welding Educator

EVENTS/TRIPS

- Bethlehem Steel
- Welding Expos
- Union Career Fairs
- Competitions :
 - AWS Lehigh Valley Chapter
 - SkillsUSA

For More Information

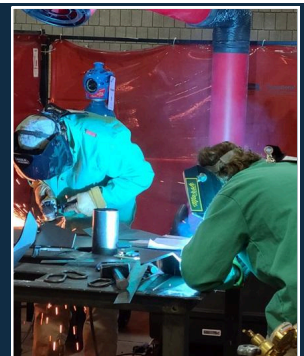
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GO FOR THE GOLD AT SKILLSUSA!

Each year, welding students compete at SkillsUSA, showcasing their talents across various categories. These include Welding, where students demonstrate their mastery of joining metals; Welding Fabrication, which challenges them to create complex structures with precision; Welding Sculpture, an event that celebrates creativity and artistic expression in metalwork; and Ornamental Iron Design, where competitors craft intricate and decorative iron pieces. These events provide an invaluable opportunity for students to hone their skills, gain recognition, and prepare for successful careers in the welding industry.



MEET THE INSTRUCTOR

Chad Feilbach grew up working for a family welding business located in Broadway, NJ. In High School, he attended a welding program similar to the one offered at Warren Tech. Upon graduation, he joined the United States Marine Corps and had the privilege of serving in Okinawa, Korea, and Iraq. After four years of active duty service, he attended the Pennsylvania College of Technology, obtaining a Bachelor's Degree in Welding Engineering. He worked in the industry for two years before becoming a welding educator and receiving a Master's Degree in Education. He currently holds AWS certifications as a Welding Inspector and Welding Educator. The students at Warren Tech continually give him a fulfilling career, and he looks forward to working with them each day to observe the many accomplishments they will achieve.





Welding

Course Outline

WELDING 1

- Safety (Weeks 1-2)
- Manual Oxyfuel Gas Cutting (Weeks 3-7)
- Shielded Metal Arc Welding Equipment and Supplies (Weeks 8-11)
- SMAW E6010 Process (Weeks 12-20)
- Power Equipment (Weeks 21-24)
- SMAW E7018 Process Introduction (Weeks 25-33)
- Oxyfuel Gas Cutting (Weeks 34-36)
- Brazing and Soldering (Weeks 37-39)

WELDING 2

- Safety (Weeks 1-2)
- Power Equipment (Weeks 3-4)
- Plasma Arc Cutting (Weeks 5-6)
- SMAW Groove Welds (Weeks 7-13)
- GMAW/FCAW Equipment and Supplies (Weeks 14-16)
- GMAW Process (Weeks 17-27)
- FCAW-G Process (Weeks 28-36)
- FCAW-S Process (Weeks 37-39)

WELDING 3

- Safety (Weeks 1-2)
- Power Equipment (Weeks 3-4)
- Carbon Arc Cutting-Air (Weeks 5-6)
- Welding Symbols and Blueprint Reading (Weeks 7-15)
- Gas Tungsten Arc Welding Equipment and Supplies (Weeks 16-19)
- GTAW Mild Steel (Weeks 20-31)
- GTAW Stainless Steel (Weeks 32-35)
- GTAW Aluminum (Weeks 36-39)

WELDING 4

- Safety (Weeks 1-2)
- Power Equipment (Weeks 3-4)
- Non-Destructive Testing (Weeks 5-9)
- Welding Codes and Procedures (Weeks 10-13)
- CNC Plasma Cutting (Weeks 14-20)
- Fabrication Skill Development (Weeks 21-36)
- Robotics and Advanced Welding Processes (Weeks 37-39)