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Welding & Fabrication

CIP 48.0508

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Have Questions?

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***Additional information about these items can be found in the student handbook.**

Western Montgomery Career and Technology Center

Mission Statement

The Mission of the Western Montgomery Career and Technology Center is to prepare quality citizens for lifelong productivity in a challenging and changing world by forming innovative partnerships among family, school, and community. In addition to preparation for direct entry into the workforce, WMCTC students are prepared to enroll in college studies. Many two- and four-year institutions offer programs of study which complement the occupational and technical areas offered at WMCTC.

BELIEFS

We believe in valuing the diversity of each student

We believe education leads to opportunity

We believe quality education starts with quality leadership

We believe a career and technical education is a critical component of workforce development

We believe technology is vital to learning and will help students connect with a rapidly changing world

We believe technology must be embraced by teachers as a tool to help prepare students to meet current and future labor market demands

We believe in providing all students with a positive educational experience

We believe students should feel proud of what they have accomplished each day

We believe students will be provided the opportunity to achieve their highest potential

We believe students will be provided the opportunity to acquire and cultivate leadership skills

We believe in providing students with a safe school environment

We believe the success of a student is enhanced by parents and/or other influential adults through their support and involvement

We believe in encouraging students to maintain a lifelong affiliation with the school

We believe change is an ongoing process, not an event, and is fundamental for building quality programs of study

We believe instruction must accommodate individual student learning styles

Welding- WS

Program Description

Offered for 9th, 10th, 11th, and 12th graders, the Welding & Fabrication program prepares individuals to apply technical knowledge and skills to become skilled welders & fabricators. This program will focus on SMAW, GMAW, FCAW, and GTAW on ferrous and non-ferrous materials as well as introduction to robotic welding. You will also be trained on how to use an Oxy-fuel torch, PAC, CAC, and various power equipment. We will discuss welding metallurgy, welding processes and heat-treating, structural design, safety, and applicable codes and standards in the classroom.

Job Titles- Career Pathways

47-2011.00 Boilermakers

47-2221.00 Structural Iron and Steel Workers

51-2041.00 Structural Metal Fabricators and Fitters

51-4121.00 Welders, Cutters, Solderers, and Brazers

51-4192.00 Layout Workers, Metal and Plastic

51-9061.00 Inspectors, Testers, Sorters, Samplers, and Weighers

CTC Knowledge transfers to college credits at:

Thaddeus Stevens College of Technology

Northampton Community College

PA College of Technology (Dual Enrollment available)

Student Certifications

OSHA 10 Hour General Industry

D1.1 Structural Welding Code - Steel

Instructor - Mr. Bartholomew

Hire Year: 2023

Biography

I have lived in Pennsylvania my entire life. I have three daughters that I love spending time with. My hobbies are fishing/hunting, Tournament Bass Fishing, Slowpitch softball, bowling, and soccer. I am involved with the American Welding Society and sit on a couple professional committees. I am also part of SkillsUSA at the national level in Opening and Closing Ceremonies. I am an Adjunct Professor at Northampton Community College teaching a variety of welding classes.

Education

PA College of Technology - Associates Degree in Computer Networking

Northampton Community College - Specialized Diploma in Welding Technology

Temple University- Bachelor's Degree in Career & Tech. Education

Temple University - Master's Degree in Higher Education

Certifications & Awards

AWS Certified Welding Educator

AWS D1.1 Structural Welding Code Steel Unlimited thickness all positions

AWS Instructor Training Institute Class of 2022

AWS Leadership Synopsis Class of 2025

AWS Lehigh Valley Section Secretary

AWS Committees of Welding Symbols and Terms and Definitions

SkillsUSA National committee member for Opening and Closing Ceremonies

NCCER instructor for Welding

Fanuc robotics instructor

Adjunct Professor at Northampton Community College

AWS Lehigh Valley section Educator of the year 2024

AWS District 3 Educator of the year 2024

AWS Lehigh Valley section Meritorious award 2025

Work Experience

I come from a family with deep welding roots. My father started his own welding business in the late 80's and I have been around it my entire life. As I grew up I

was told to do something with computers and I did. I went to Monroe County Vo-tech for computer repair and networking. Then went into PA College of Technology and made it for three years and left with an Associates degree in that. While there I took an open elective of welding and fell in love with it and went to work with my Father in his business. I started at the bottom sweeping floors and worked my way up to being partners with him. That is when I went to Northampton Community College for their welding program. My time in the trade was focused on Industrial Dampers for power plants dealing with a lot of ASME codes and welding all processes and material. Then we switched gears and got into the maintenance and repair field working as a Millwright. Working in power plants, cement plants, quarries, and asphalt plants and into production facilities of all types. We also focussed on small to medium sized structural jobs as well working with American Welding Society codes and inspectors. I have a wide range of skills and knowledge from the welding trade I bring to the table. I still work in the industry today as a consultant and work with companies to build projects for them.

Dear Student/Parent/Guardian:

Welcome to the Western Montgomery Career and Technology Center (WMCTC), where student success is our first commitment. You have made an excellent decision to pursue a career pathway in our Welding & Fabrication Program. We are here to assist you in achieving your goals by providing a supportive environment for high-quality education.

Students enrolling in Welding & Fabrication will be taught trade skills through a hands-on learning process. This instructional format will allow students to experience firsthand what it takes to become a skilled welder. Each student will receive individual attention along with group demonstrations. The most successful students have the drive to push themselves countless times each day, and that is something each student should strive for. The skills we will focus on; Welding & Fabrication, layout, blueprint reading, metallurgy, problem-solving, and written/verbal communication skills.

As a course that prepares students for working in a professional field, students are expected to maintain professional and responsible work ethics and habits. Students should arrive on time for class and be prepared for instruction. Additionally, students are expected to interact with peers respectfully.

The Welding & Fabrication program has a mandatory uniform procedure. Students are expected to wear their Personal Protective Equipment (PPE) every day. This includes 100% cotton shirts, jeans with no holes or tears, safety toed leather work boots, safety glass with side shields, leather gloves. This uniform reflects the industry standards applied in the Welding & Fabrication field. Time will be made available for students to change every day.

I look forward to meeting the new students and being in touch with you. I appreciate your involvement in your child's learning. If you have any questions please do not hesitate to contact me at 610-489-7272 ext.205 or by email at Tbartholomew@westerncenter.org.

Sincerely,

Mr. [Thomas Bartholomew](#)

Welding & Fabrication
Welding & Fabrication Behavior and Safety Procedures

1. You must wear safety glasses, cover goggles, or a face shield once you have entered the shop
2. Work boots are required for all students every day.
3. Before working on any equipment the student must have received and demonstrated an understanding of its safe operation.
4. In case of an injury, regardless of severity, it must be reported to the instructor
5. Welding & Fabrication Behavior Expectations-
All students are expected to:
 - Show respect
 - Be aware of and obey all safety rules
 - Learn and work in a safe and efficient manner
 - Be punctual
 - Manage their time in class effectively
 - Work on-task and only on their assigned projects
 - Accept responsibility
 - Come to class prepared to learn, and with the necessary materials
 - Participate in lectures, demonstrations, and learning activities
 - Follow all rules stated in the student handbook

A brief note about RESPECT.....

Students are to respect everything in the classroom. This includes the teacher, your peers, desks, books, tools, equipment, and machines.....EVERYTHING!

Students will respect other people's feelings and their opinions of others.
Inappropriate language/behavior will not be tolerated!

Welding & Fabrication Tool and Equipment List

Students enrolled in the Welding & Fabrication Program will receive instruction on how to safely use the following tools and equipment. Students will be tested on the proper use of the equipment and general safety. Each student must pass these safety tests with 100% before having the authorization to use the equipment. Students are expected to treat the equipment with the utmost respect and follow all safety guidelines immediately when entering the program.

The following is a list of the equipment, power machines, & tools on which each student will receive training before they will be allowed to use them.

- Acetone
- Belt Sander
- Bandsaws
- Destructive testing equipment
- Grinder
- Hydraulic Press
- Collaborative Robot
- LPT
- Plasma
- Plasma table
- torch
- Welding machine

Western Montgomery Career and Technology Center Grading

Grade Scale

100 – 93 (A) Excellent

92 – 85 (B) Above Average

84 – 77 (C) Average

76 – 70 (D) Below Average

69 – 0 (F) Failing

Grading

Technical education involves more than academic work, therefore, it becomes necessary to consider other factors when grading students. Attitude, knowledge, and skills are prime factors in determining the grades of technical students. Students will have the opportunity to improve their performance rating in regard to competencies as determined by the technical instructor.

Teachers will gladly discuss a student's progress at any time. A grade record sheet and anecdotal record sheet are kept on every student. Grades are recorded as numerical grades. The school term is divided into two (2) semesters or four (4) marking periods.

Report cards give an objective measure of the pupil's performance and also give some indication of the following student attributes:

- Academic growth.
- Predicted ability to succeed.
- Ability to extend or limit future educational plans.
- Self-concept.
- Student's reliability.

→ **COMPUTATION OF QUARTERLY GRADES- PROCEDURES**

When computing quarterly grades, 3 major areas will be considered: Theory/Knowledge, Skill Development, and Work Attitude. A breakdown of sample criteria under each main heading follows:

1. THEORY/KNOWLEDGE – 30% of grade

Tests will be the main factor when calculating the theory grade. This portion of the grade will include:

- Written and/or oral tests and quizzes
- Written and/or oral reports
- Homework assignments

2. SKILL – 40% of grade

This portion of the grade will include:

- Demonstration of safety practices
- Projects – quality of work
- Basic skills competencies
- Procedures
- Operation of equipment

3. WORK ATTITUDE – 30% of grade

This portion of the grade will include:

- Working independently and without need for constant supervision and direction
- Staying with and following tasks through completion
- Coming to class prepared
- Participating in lab cleanup
- Showing interest, initiative, and pride in work
- Respecting the authority of school staff

- Respecting the rights of others and working cooperatively with others
- Taking pride in personal appearance and dressing appropriately for the program
- Maintaining good attendance

To derive at a quarterly grade, the instructors will assign the above weighting to each of the 3 categories. The final course grade will be derived by the following: Qtr. 1 (20%), Qtr. 2 (20%), and Qtr. 3 (20%), Qtr. 4 (20%), Final Exam (20%)

Program of Study Task Tracking Syllabus

The student's level of achievement for each skill/task listed on the program's task grid is tracked continuously. Task evaluation is updated every week as a student completes skills/tasks. Students and parents shall be provided an up-to-date skill evaluation upon request and completion of the program. Perspective employers are encouraged to review a student's task grid to supplement the student's transcript. These skill/task grades are also used to determine the awarding of articulated credits at postsecondary institutions. This task grid is retained as part of the student's permanent performance record. The following evaluation criteria will be used and recorded when assigning the level of skill achievement for the various Program of Study tasks:

Below Basic - Student requires close supervision to complete the skill/ task. Full retraining and practice of the task/skill are required

Basic - (Pre-Entry Level) Students require limited supervision to complete the skill/ task. Some additional training and practice are required.

Competent - (Entry Level) Student is minimally competent and able to perform skill/task independently, to industry standards, and without supervision.

Advanced - Student is proficient and has mastered skill/task. Student is considered highly-qualified for entry-level employment

Grading System:

Students' grades are reported to their respective high schools based on a numerical percentage. Students are expected to must maintain a minimum grade of 70% in their technical program to return the

following year. Students that fail may repeat their level, only if there is space in that particular classroom program level for the upcoming year. The WMCTC does not hold seats for students that failed the previous school year.

Incomplete Grades:

WMCTC Joint Committee Policy 213 individual teachers may assign an incomplete grade in any marking period except the fourth. An incomplete grade may be assigned to allow a student additional time to complete specific work or assignments. All make-up work must be completed before the end of the second week of the next marking period. For example, an incomplete grade assigned in the first marking period must be satisfied by the second week of the second marking period. An incomplete grade cannot be assigned as a fourth marking period grade, final exam grade, and/or final grade. Students who do not complete assigned work as scheduled will receive an "F".

Welding Technology/Welder CIP 48.0508

High School Graduation Years 2022, 2023, 2024

100 Occupational Orientation and Safety

Item	Task	(X) Indicates Proficiency ¹	Secondary Course Crosswalk
101	Complete time or job sheet, reports, or records.		
102	Perform housekeeping duties daily.		
103	Follow verbal instructions to complete work assignments and rules.		
104	Follow written instructions to complete work assignments and rules.		
105	Inspect and use Personal Protection Equipment (PPE) daily.		
106	Maintain proper organization and operation of the work area.		
107	Demonstrate proper use of ventilation equipment.		
108	Discuss proper hot work operation.		
109	Demonstrate knowledge of proper work actions for working in confined spaces.		
110	Identify Safety Data Sheets (SDS) and precautionary labeling.		
111	Inspect welding and thermal cutting equipment for safe operation.		
112	Display familiarity with industrial and OSHA safety standards.		
113	Identify oxyfuel safety procedures.		
114	Identify arc welding/cutting safety procedures.		
115	Follow emergency action plan.		

200 Principles of Welding

Item	Task	(X) Indicates Proficiency ¹	Secondary Course Crosswalk
201	Identify major types of metals (ferrous and nonferrous) used in welding.		
202	Describe the basic principles of heat, expansion, and contraction as they relate to metals.		
203	RESERVED		
204	Describe the industry accepted welding codes, standards, and procedures and their use.		
205	Identify various joint designs (joint geometry).		
206	Clean and prepare materials for welding and/or cutting.		
207	Demonstrate proper use of hand tools.		

208	Demonstrate proper use of standard measuring and layout tools.		
209	Demonstrate proper use of power equipment.		

300 Welding, Drawing, and Weld Symbol Interpretation

Item	Task	(X) Indicate Proficiency ¹	Secondary Course Crosswalk
301	Interpret basic elements of a drawing or sketch.		
302	Interpret welding symbol information.		
303	Fabricate parts from a drawing or sketch (class project).		
304	Identify structural materials used in the metal fabrication field.		
305	Perform basic metric conversion.		

400 Visual Examination, Inspection, and Testing

Item	Task	(X) Indicates Proficiency ¹	Secondary Course Crosswalk
401	Evaluate cut surfaces and edges of prepared base metal parts for testing.		
402	Identify and evaluate weld discontinuities as per accept/reject criteria.		
403	Perform visual inspection, destructive, and non-destructive testing.		

500 Shielded Metal Arc Welding (SMAW)

Item	Task	(X) Indicates Proficiency ¹	Secondary Course Crosswalk
501	Perform safety inspections of SMAW equipment.		
502	Make minor external repairs to SMAW equipment.		
503	Set up and operate SMAW equipment.		
504	RESERVED		
505	RESERVED		
506	RESERVED		
507	Perform qualification test.		
508	Pass fillet weld performance test in flat position.		
509	Pass fillet weld performance test in horizontal position.		
510	Pass fillet weld performance test in vertical position.		
511	Pass fillet weld performance test in overhead position.		
512	Pass groove weld performance test in flat position.		
513	Pass groove weld performance test in horizontal position.		
514	Pass groove weld performance test in vertical position.		
515	Pass groove weld performance test in overhead position.		

600 Gas Metal Arc Welding (GMAW)

Item	Task	(X) Indicates Proficiency ¹	Secondary Course Crosswalk
601	Perform safety inspections of GMAW equipment.		
602	Make minor external repairs to GMAW equipment.		
603	Set up and operate GMAW equipment.		
604	RESERVED		
605	RESERVED		
606	Pass performance test.		
607	Pass fillet weld performance test in flat position.		
608	Pass fillet weld performance test in horizontal position.		
609	Pass fillet weld performance test in vertical position.		
610	Pass fillet weld performance test in overhead position.		
611	Pass groove weld performance test in flat position.		
612	Pass groove weld performance test in horizontal position.		
613	Pass groove weld performance test in vertical position.		
614	Pass groove weld performance test in overhead position.		

700 Flux Cored Arc Welding (FCAW)

Item	Task	(X) Indicates Proficiency ¹	Secondary Course Crosswalk
701	Perform safety inspections of FCAW equipment.		
702	Make minor external repairs to FCAW equipment.		
703	Set up and operate FCAW equipment.		
704	RESERVED		
705	Pass performance test.		
706	RESERVED		
707	Pass fillet weld performance test in flat position.		
708	Pass fillet weld performance test in horizontal position.		
709	Pass fillet weld performance test in vertical position.		
710	Pass fillet weld performance test in overhead position.		
711	Pass groove weld performance test in flat position.		
712	Pass groove weld performance test in horizontal position.		
713	Pass groove weld performance test in vertical position.		
714	Pass groove weld performance test in overhead position.		

800 Gas Tungsten Arc Welding (GTAW)

Item	Task	(X) Indicates Proficiency ¹	Secondary Course Crosswalk
801	Perform safety inspections of GTAW equipment.		
802	Make minor external repairs to GTAW equipment.		
803	Set up and operate GTAW equipment.		
804	RESERVED		
805	Pass performance test on ferrous materials.		
806	Set up and operate GTAW on nonferrous materials.		
807	RESERVED		
808	Pass performance test on nonferrous materials.		
809	Pass fillet weld performance test in flat position on ferrous materials.		
810	Pass fillet weld performance test in horizontal position on ferrous materials.		
811	Pass fillet weld performance test in vertical position on ferrous materials.		
812	Pass fillet weld performance test in overhead position on ferrous materials.		
813	Pass fillet weld performance test in flat position on nonferrous materials.		
814	Pass fillet weld performance test in horizontal position on nonferrous materials.		
815	Pass fillet weld performance test in vertical position on nonferrous materials.		
816	Pass fillet weld performance test in overhead position on nonferrous materials.		

900 Manual Oxy-fuel Gas Cutting (OFC)

Item	Task	(X) Indicates Proficiency ¹	Secondary Course Crosswalk
901	Perform safety inspections of OFC equipment.		
902	Make minor external repairs to OFC equipment.		
903	Set up for manual OFC operations on steel.		
904	Operate manual OFC equipment.		
905	Perform straight-cutting operations on steel.		
906	Perform shape-cutting operations on steel.		
907	Perform bevel cutting operations on steel.		
908	Perform piercing operations on steel.		

1000 Mechanized Oxy-fuel Gas Cutting (OFC)

Item	Task	(X) Indicates Proficiency ¹	Secondary Course Crosswalk
1001	Perform safety inspections of mechanized OFC equipment.		
1002	Make minor external repairs to mechanized OFC equipment.		
1003	Set up and operate mechanized OFC equipment on steel.		
1004	Perform straight mechanized OFC operations on steel.		
1005	Perform bevel mechanized OFC operations on steel.		

1100 Manual Plasma Arc Cutting (PAC)

Item	Task	(X) Indicates Proficiency ¹	Secondary Course Crosswalk
1101	Perform safety inspections of PAC equipment.		
1102	Make minor external repairs to PAC equipment.		
1103	Set up and operate manual PAC operations on ferrous and nonferrous materials.		
1104	Perform shape PAC operations on ferrous and nonferrous materials.		
1105	Perform gouging and scarfing PAC operations to remove base and weld metal on ferrous and nonferrous materials.		

1200 Manual Air Carbon Arc Cutting (CAC-A)

Item	Task	(X) Indicates Proficiency ¹	Secondary Course Crosswalk
1201	Perform safety inspections of CAC-A equipment and accessories.		
1202	Make minor external repairs to CAC-A equipment and accessories.		
1203	Set up and operate manual CAC-A gouging and cutting operations on steel.		
1204	Perform gouging and scarfing operations to remove base and weld metal on steel.		

1300 Reserved

Item	Task	(X) Indicates Proficiency ¹	Secondary Course Crosswalk
1301	RESERVED		
1302	RESERVED		

Career and Technical Student Organizations (CTSO)

All students enrolled in Western Montgomery Career & Technology Center have the opportunity to participate in at least one Career & Technical Student Organization (CTSO) while enrolled at the CTC. Students who become members in these co-curricular organizations have the opportunity to participate in team building, leadership, community service and social events.



FCCLA - Family, Career and Community Leaders of America

FCCLA builds strong leaders and addresses important personal, family, work, and societal issues through family and consumer sciences education. PA Family, Career and Community Leaders of America Opens In A New Window (state website) Family, Career and Community Leaders of America Opens In A New Window (national website)



HOSA - Health Occupations Students of America

HOSA's two-fold mission is to promote career opportunities in the healthcare industry and to enhance the delivery of compassionate, quality health care to help students meet the needs of the health care community. HOSA's goal is to encourage all health science technology instructors and students to affiliate and be actively involved in the HOSA-HSTE (Health Science Technology Education) Partnership and serve as a major pipeline of health care professionals in the future.



SkillsUSA is a national student organization that strives to make each student more employable through the development of participatory, and leadership skills to complement the occupational skills developed by students in technical education classrooms or work-based learning sites. SkillsUSA is an integral part of approved technical education occupation programs.



NTHS

The National Technical Honor Society is an educational non-profit that exists to honor, recognize, and empower students and teachers in Career & Technical Education. As the honor society for Career & Technical Education, NTHS serves over 100,000 active members annually in both secondary and postsecondary chapters across the country.

It is the policy of the Western Montgomery CTC not to discriminate on the basis of sex, handicap, race and national origin in its educational and vocational programs, activities, or employment as required by the Title IX, Section 504, and Title VI.



The American Welding Society. It is a free membership for all students and WMCTC has a student chapter that all welding students belong to. They will operate this organization and it will give them opportunities to meet and talk with industry professionals in the welding industry.

Western Montgomery Career and Technology Center

Cooperative Education Guidelines

Students are eligible for the Cooperative Education Program based on their technical teacher's recommendations, grades, NOCTI pre-test score, attendance and school discipline history. Students in the Co-Op Program are paid by their employer for the hours they work. Some students also participate in un-paid internships for one or more days throughout the school year. Both programs have the same requirements for students. Students generally become eligible to participate during the second semester of their junior year and at any time throughout their senior year or prior to this time with instructor approval. A student who has five (5) or more unexcused absences from school or more than ten (10) days excused absences from school may not be eligible for the Cooperative Education Program. A student who accumulates three (3) unexcused tardies may be required to conference with school administration to continue the work-based component of the School to Work Program. (Tardy days are counted both at school and at work.)

The only exception to this attendance requirement will be for students who have had an extended illness that has been documented by a physician. In the event of extenuating circumstances, the school administration will consider Cooperative Education placement for the students in this category.

Application Procedure:

1. Interested students should discuss the possibility of a paid Co-Op or unpaid Internship placement with his/her instructor to determine if the instructor feels the student is prepared for a work-based learning experience.
2. The student should then meet with the School to Work Coordinator to begin the application process.

3. Enrollment forms must be completed online via forms that are emailed to the student, parent/guardian, home school personnel and technical instructor.

Securing a Cooperative Education Position:

1. The School to Work Coordinator will attempt to secure placement for the student in his/her specific technical trade area. All Cooperative Education placements must directly relate to the student's course of study. The student may assist in the search for a job by filing applications for employment with industries related to their course of study.

2. WMCTC is not responsible for providing transportation to the work site therefore the student or family must have reliable transportation to the job site.

3. Students may be terminated or suspended from the Cooperative Education Program for inappropriate behavior at school or the work site, poor grades, poor attendance, or disciplinary actions.

For More Information Contact:

Ms. Barb Mueller

bmueller@westerncenter.org

610-489-7272 ext. 218

Career & Technical Education Students SOAR



The Pennsylvania Department of Education (PDE) supports career and technical education students aligning their high school courses to a college program in order to complete a degree, diploma or certificate. If you are a career and technical education student, use the resources below to learn about the credentials needed to qualify for SOAR program credit.

What Is SOAR?

SOAR stands for *Students Occupationally and Academically Ready*. SOAR programs articulate skills and tasks gained at the secondary school (high school) level to course credit earned in a postsecondary (college) degree, diploma or certificate program.

SOAR programs can help students:

- Prepare for entering the job market with college and career ready skills
- Choose the best career pathway
- Save money on college tuition
- Save time by not duplicating coursework in college

How Do I Qualify for SOAR Credits?

Qualified SOAR program students are eligible to apply for credits up to 3 years after their high school graduation date. In order to qualify for SOAR program post secondary credits a student must:

- Earn a high school diploma, with a minimum 2.75 GPA on a 4.0 scale in the technical core courses
- Complete the secondary school component of the approved PDE Program of Study
- Achieve proficiency on all tasks of the approved PDE Program of Study Competency Task List

- Achieve competent or advanced level on the secondary school end-of-program assessment that is appropriate for the approved PDE Program of Study

WMCTC CERTIFICATE OF COMPETENCE SAMPLE