



School of Welding

3417 E. Springfield
Spokane, WA 99202

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Selected programs of study at OXARC, LLC are approved by the Workforce Training and Education Coordinating Board's State Approving Agency (WTECB/SAA) for enrollment of those eligible to receive benefits under Title 38 and Title 10, USC.

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Staff & Weld Lab Training Schedule

Campus:

3417 E. Springfield
Spokane, WA 99202
509-535-7794 / Fax: 509-755-0655

Administrative Office:

4003 E. Broadway Avenue
Spokane, WA 99202
509-535-7794 / Fax: 509-536-8965

OXARC, LLC Weld Lab and Staff:

The following list includes the administration and faculty at the time of publication.

Weld Lab:

Jasen Petersen Instructor, Spokane

Hours of Operation:

Administration Office:	Monday through Friday	8:00am to 4:30pm
Weld Lab:	Monday through Thursday	7:00am to 3:00pm
Training Schedule:	Open Enrollment/Rotating Start Dates	

OXARC, LLC

4003 E. Broadway Ave.

Spokane, WA 99202

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WELCOME TO OXARC SCHOOL OF WELDING

Investing in education is a serious decision. When you explore training options that may increase your salary level and employment potential, you are, in effect, investing in yourself. At OXARC, we encourage a student population of responsible adults because we know that they are the best learners. When personal success is the end product of the training process, it virtually guarantees the success of any academic program.

At OXARC we concentrate on job-specific training. Our welder training program is based on industry needs. As industry makes changes and new technologies are developed, the welder training program at OXARC will be updated to keep pace with these changes. Because of that, courses may change at any time. Our goal is to provide quality training in key skill areas in the most practical, justifiable time frame. We will concentrate on making your welding experience meaningful and enjoyable.

OXARC offers comprehensive welder training. These courses are for the self-motivated adults who recognize the need to keep ahead of the job market. By keeping up with the welding standards in the industry, you will experience career satisfaction and enjoy the economic and social rewards of a position ideally suited to your interests and abilities.

OUR HISTORY

OXARC, LLC has served the Inland Northwestern United States for over 50 years as a retail and wholesale Supplier of welding, safety, and industrial supplies, as well as industrial, medical and specialty gases. Recent additions and expansions include ultra-high purity calibration gases, and a complete line of Welding Inspection and Testing Services. A Fire Equipment Division has been added, providing fire extinguisher and first aid product sales and service, fire suppression systems for businesses and vehicles, and fire alarm systems.

OXARC stocks a variety of retail and wholesale items and houses a complete service, warranty repair, and emergency repair facility for welding related products and provides complete support for all of our products and services, with local factory representation and factory trained service technicians.

Our stores, warehouses, and stock points, located throughout the Inland Northwestern United States, are linked with our own trucking and distribution system. OXARC employees pride themselves in providing the highest quality of workmanship and the highest quality of products in the industry. The many state-of-the-art facilities are continually updated to give OXARC the competitive and quality edge needed to lead the industry.

Weld Lab

OXARC School of Welding is located at 3417 E. Springfield. OXARC's Corporate Office and Retail store is located just down the street from the Welder Training facility at 4003 E. Broadway Avenue.



HOURS OF OPERATION

Administration

OXARC is open from 8:00am to 4:30pm, Monday through Friday.

Training Sessions

Training sessions are set up through the Student Services Coordinator at OXARC's training facility on Springfield in Spokane. OXARC has flexible start dates for each course.

HOLIDAYS

OXARC is open year-round, with the exception of the following holidays:

- New Year's
- Memorial Day
- Independence Day
- Labor Day
- Thanksgiving
- Christmas

In the event that the holiday schedule should change, students will be notified in advance.

EDUCATIONAL OBJECTIVE

Our educational objective is to prepare students for new or better careers in the field of welding. Our comprehensive training programs are designed to help each individual develop his or her skills at their own pace; this would include entry-level to advanced welders. Because the welding industry is so diverse, students can be qualified to a number of welding processes and are encouraged to take a qualification test. Many of these tests will make the student employable and some are a required prerequisite for employment.

The classes are tailor-made to accommodate each student's individual needs. This makes the training more of a one-on-one experience, giving the student the opportunity to accelerate their training at their own pace.

SCHOOL PHILOSOPHY AND MISSION

We believe that all students should have the opportunity to develop the fundamentals and technical skills that will enable them to secure and retain productive and rewarding career positions in the welding industry. OXARC is committed to providing welding courses that deliver the maximum amount of training in the minimum amount of time, with safety and quality as our goal. The dedication to the overall success of each student forces OXARC to continually strive to maintain its reputation of delivering the highest quality training possible through a combination of qualified, experienced staff; well-organized curricula and contemporary equipment, which reflect current industry standards.

The focus of all instruction is "hands-on" training, with actual welding and welding equipment and supplies used in today's welding industry. OXARC develops all courses to relate directly to the needs of local businesses and industries, and instructors are certified to instruct course material.

In keeping with its mission and purpose, OXARC strives to:

1. Educate and train students with the current welding equipment found in today's environments;
2. Assist students in developing their technical skills to meet industry standards;
3. Provide students with the most skilled and experienced staff available who are devoted to the personal and career development of every student.

EXPERIENCE-BASED EDUCATION

OXARC offers all training sessions in a stand-up lecture basis with an emphasis with hands-on experience learning. This methodology ensures that students receive the technical industry terminology and standards while learning hands-on skills.

TRAINING COURSES

OXARC offers multiple training courses at three different levels and in the following welding processes. Specialty courses can be accommodated upon request. Courses are designed around the most common industry standards: AWS, ASME, API, WABO; and processes:

- Shielded Metal Arc Welding, (SMAW) “Stick”
- Flux Core Arc Welding, (FCAW), “Dual Shield or Inner Shield”
- Gas Metal Arc Welding, (GMAW) “MIG”
- Gas Tungsten Arc Welding, (GTAW) “TIG”

Qualification testing can be performed to any of these standards/processes.

Beginner: This course will give the student a general concept of the welding fundamentals, principles and welding techniques required for a given welding process they have chosen to take. All welding will be on mild steel. Upon completion of the course, if the welder is ready, they will be given the opportunity to take a WABO & AWS D1.1 2G qualification test.

Total Clock Hours: 160

Intermediate: Welders entering this course should have experience at welding and good fundamental knowledge of the welding process(es) for which they are training. All welding will be on mild steel. Upon completion of the course, if the welder is ready, they will be given the opportunity to take a WABO & AWS D1.1 3G & 4G qualification test.

Total Clock Hours: 160

Advanced: This course is designed for the experienced welder. Welders taking this course should have a vast experience at welding and have already past a 2G, 3G and 4G qualification test in the *same welding process*. This course will be tailor-made for each student. The curriculum is designed around the welder challenging their skills in field related projects and challenges. All welding will be on mild steel.

Total Clock Hours: 160

Advanced II: The Advanced II course is designed for the experienced welder in an OPEN shop format. Welders taking this course should have excellent welding skills and ability. This course will be tailor-made for each student. All welding will be on mild steel.

Total Clock Hours: 160

PRIOR EDUCATION/EXPERIENCE

Prior related education, job experience, and/or military experience of students will be reviewed on a case-by case individual basis and appropriate hours/course placement will be awarded. An evaluation may also be done with the instructor.

CORPORATE TRAINING

OXARC is not solely a training source for individuals. We are happy to offer specialized training to companies that have a need to provide employees with new skills training or upgrading on a contractual basis. Please contact our School Director for details regarding corporate training courses.

QUALIFICATION OF FACULTY

All of the instructor's at OXARC's School of Welding have vast experience in the trade, as well as certifying and training welders, or potential welders for the industry.

ADMISSION POLICIES AND PROCEDURES

The Administration Office is open Monday through Friday from 8:00am to 4:30pm. Individuals interested in learning more about the school and its training courses should contact the school.

ENTRANCE REQUIREMENTS

All applicants should complete an evaluation with the School Director and/or staff in order to mutually determine what educational offerings best meet the needs of the applicant.

In addition, students enrolling in the Welding Training Courses must be 18 years of age prior to starting a course. A high school diploma or General Educational Development (GED) certificate is preferred, but not required. This allows OXARC to assess the applicant's basic skills and relevant aptitudes to determine that they have the ability to complete and benefit from the training they are considering. A welding evaluation is required for direct placement into the Advanced Welding Course.

WELDER EVALUATION

An evaluation of student's skills and knowledge will determine the proper placement into a course. This will consist of a personal interview with the welding staff and the performance of actual welding. Prior related education and/or military experience of veteran students will be reviewed on a case-by-case basis and appropriate credit awarded.

STUDENT DISCLAIMER

All applicants are considered for acceptance according to the admissions standards stated in the catalog. If however, it is felt by the school administration that the prospective student would be unlikely to successfully complete their chosen educational offering, or is unlikely to qualify for employment in the vocation or field for which the training is designed, then the administration must disclose this decision to the prospective student. If the prospective student expresses a desire to enroll after such disclosure, then the Student Disclaimer shall be signed and dated by the student.

SCHEDULING POLICIES AND PROCEDURES

For students enrolled in the Welder Training Course, the minimum attendance is required as outlined.

ENROLLMENT PERIODS

OXARC offers welding training sessions on a rotating basis. Enrollment start dates may vary due to available openings. Enrollment in training sessions will be filled on a first-come, first-fill basis. OXARC does not recommend schedule changes once the student has begun. However, if a student must change their schedule, they must meet with the Student Services Coordinator. OXARC will try to accommodate the student's needs.

Enrollment will be limited to 85% veteran enrollment. In the event that a veteran wishes to enroll in a program that has already reached the 85% cap, he/she may but will not be eligible for VA funding. Chapter 35 and 31 students may still enroll even if the 85% has been realized.

TUITION - FINANCIAL AID

OXARC does not offer, and is not approved for, financial aid. All monies are due upfront prior to the start of each course. If you are working with WorkSource, Department of Labor or Department of Vocational Rehab for tuition assistance, OXARC is approved. Our Spokane location is approved for Veterans Funding. Standard courses are 160 hours, include all tools/materials needed for the course and one qualification to AWS and one certification to WABO. One course is \$3,000.00. Any additional courses are discounted. Tuition for each course is due prior to the start date of that course. Any individual who is entitled to educational assistance under chapter 31, Vocational Rehabilitation and Employment, or Chapter 33, Post-9/11 GI Bill® benefits, are permitted to attend in the course of education during the period beginning on the date of which the individual provides to the educational institution a certificate of eligibility for entitlement or Statement of Benefits under Chapter 31 or 33. There will be no penalty, fees or denials due to the delayed disbursement funding from VA.

PLACEMENT ASSISTANCE

OXARC does not offer placement assistance for our students.

ATTENDANCE, TARDINESS, LEAVES OF ABSENCE AND STUDENT CONDUCT REQUIREMENTS

ATTENDANCE

An attendance of 95% is required for all enrollment periods. The enrollment period is defined in the Enrollment Agreement. Students that fall below this 95% attendance requirement will be removed from the scheduled class and given the opportunity to reschedule into the next two months training sessions depending on availability of space. It is difficult to successfully develop marketable skills without regular, consistent attendance. As students are expected to progress and complete according to their attendance schedule of record, they are required to attend their training sessions as scheduled. Students who fail to attend class for four (4) calendar days from enrollment will be terminated from the school. Students will receive a letter from the school following the week of absence advising them of their situation. If students do not reschedule their remaining training sessions or hours, an additional letter will be mailed reminding students that after four (4) days from enrollment they will be terminated from the school. The third and final letter will be notification of termination.

TARDINESS

OXARC expects students to be on time for all activities, appointments and training sessions. Students who arrive more than 30 minutes late, without making prior arrangements, will not be admitted to class. The school does not keep records on tardiness because any student, who is not in class 30 minutes after the session begins, will be marked absent.

LEAVE OF ABSENCE

Requests for Leaves must be submitted to the Student Services Coordinator in writing and must include an effective date, anticipated return date, and student signature. If a student fails to return from a Leave of Absence, the date the student is scheduled to return will be the date of their termination from school. The maximum length of time for a Leave of Absence will be made according to the guidelines of the Refund Policy.

ABSENCES

OXARC regards students who miss a class session, for which they are scheduled, to be absent for that session. OXARC does not distinguish between types of absences. There are no “excused” absences. Any student who misses a scheduled training session will be given the opportunity to make up their absence at the end of their scheduled training course, depending on availability of space.

STUDENT CONDUCT REQUIREMENTS

Students are expected to dress and act in a businesslike manner while attending classes. At the discretion of the school administration, a student may be dismissed from school for a serious incident or repeated incidents of an intoxicated or drugged state of behavior, possession of drugs or alcohol upon school premises, possession of weapons upon school premises, behavior creating a safety hazard to other persons at school, disobedient or disrespectful behavior to other students, an administrator, or faculty member, failure to conform to building policies, or any other stated or determined infractions of conduct. The dress code is strictly enforced as to maintain safety in a welding environment. Horseplay will not be tolerated.

Refunds for students terminated because of not maintaining OXARC's Student Conduct Requirements will be made within the guidelines of the Refund Policy.

ACADEMIC PROGRESS

1. Attendance: Students should have attended 95% of the programs scheduled hours. Any student who has not attended 95% of their program-scheduled hours will be removed from the scheduled class and given the opportunity to reschedule into the next two months training sessions depending on availability of space. If they do not meet this attendance requirement, they will be terminated from the school if sessions are not made-up within 60 days from enrollment.

2. Progress: For each course the student will be required to complete welding projects. These projects are used to develop the student's skills. At this time, if the student is falling behind and is not developing or acquiring the skills required, the student's progress will be reviewed with the School Director and appropriate actions will be taken.

3. Project Completion/Incompletion: Each student will be required to complete certain projects. Each project is checked and inspected by the instructor and will be judged on the standards for which the welding is being performed. For students who fail to complete projects, the instructor will provide more of a one-on-one environment. This would ensure that the student understands the project and is acquiring the skills to complete the project. In some cases, the student might not obtain the skills required to become a proficient welder.

GRADING POLICY

All Welding projects are graded on a "Pass/No Pass" basis. "Pass" is defined as project completion and a 95% attendance of scheduled program hours.

CERTIFICATE OF COMPLETION REQUIREMENTS

The requirements, which must be met by OXARC students to be considered for graduation, are as follows:

1. Minimum of 95% attendance of total program hours; and
2. Successful completion of all projects within the maximum allowable time frame; and
3. Meet all financial obligations to the school.

CERTIFICATE OF COMPLETION

A Certificate of Completion will be awarded to all students who meet the Graduation Requirements.

TERMINATION, APPEAL AND REINSTATEMENT

The following situation, that happens first, will be a reason for student dismissal:

- (1) Receipt of notification by the student of a desire to withdraw
- (2) Four calendar days of absence
- (3) Date on which formal review of student progress indicates that the student did not meet minimum criteria for maintaining satisfactory progress
- (4) Date on which a student is dismissed from school for failure to uphold school conduct codes
- (5) Date on which a student fails to uphold financial obligations as agreed upon with the school,
or
- (6) Failure to return from a Leave of Absence

Whether termination of enrollment is voluntary or involuntary, students should realize that they will remain obligated for the amount of tuition and fees due to the school based on the Refund Policy.

APPEAL

Students have the right to appeal dismissal decisions made by the school administration by submitting a written request to the School President describing any mitigating circumstances or conditions, which warrant special consideration. If the appeal is accepted, the student may be reinstated according to special terms and conditions stipulated by the School President.

REINSTATEMENT

If an appeal is denied or if the student chooses not to appeal the decision, an application for reinstatement may be submitted to the school no earlier than 30 days from the date of termination. Students who do not pursue or win an appeal may be reinstated under special conditions.

STUDENT SERVICE

OUR “OPEN DOOR” POLICY

Any member of the faculty or administrative staff is available to a student for a private meeting. OXARC welcomes feedback from students regarding policy, instruction and curriculum. The School Director’s door is always open should a problem arise. We would also like to share your enthusiasm and excitement when you find suitable employment.

STUDENT RECORDS AND ACADEMIC TRANSCRIPTS

Academic transcripts are prepared at the scheduled completion dates of each evaluation period when projects are formally reviewed. In accordance with the Family Educational Rights and Privacy Act of 1974, student records at OXARC are only open for inspection to students and parents of dependent students to review and challenge any and all parts of said records. This inspection is welcomed by appointment during regular business hours.

OXARC maintains student Academic and Attendance Records for a minimum of (50) fifty years from the date of each enrollment. Should students desire an official academic transcript, contact the School Director or Student Services Coordinator. There is no charge for this request.

FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT (FERPA)

OXARC will follow the Family Educational Rights and Privacy Act (FERPA) which is a Federal law that protects the privacy of student education records. Parents or eligible students (over 18) have the right to inspect and review the student's education records maintained by the school. OXARC must have written permission by eligible student in order to release any information from a student's education record. However, schools may disclose those records, without consent, to the following parties or under the following conditions (34 CFR § 99.31): School officials with legitimate educational interest; Other schools to which a student is transferring; Specified officials for audit or evaluation purposes; Appropriate parties in connection with financial aid to a student; Organizations conducting certain studies for or on behalf of the school; Accrediting organizations; To comply with a judicial order or lawfully issued subpoena; Appropriate officials in cases of health and safety emergencies; and State and local authorities, within a juvenile justice system, pursuant to specific State law.

STUDENT COMPLAINT PROCEDURE

Most problems or complaints that students may have with the school or its administration can be resolved through a personal meeting with the school staff. If, however, this action does not bring the situation to a close to the satisfaction of students, they may submit a written complaint to the School Director. The written complaint should contain (1) the nature of the problem(s), (2) approximate date(s) that the problem(s) occurred, (3) name(s) of the individual(s) involved in the problem(s) - staff and/or other students, (4) copies of important information regarding the problem(s), (5) evidence demonstrating that the institution's complaint procedure was followed prior to this point in time, and (6) student signature.

Students may, of course, call the School Director to schedule an appointment at any time if they prefer not to follow the written complaint procedure.

A student may also contact OXARC's licensing agency at any time. OXARC is licensed under Chapter 28c.10RCW; Inquiries or complaints regarding this or any other private vocational school may be made to the: Workforce Board, 128 Tenth Avenue SW, P.O. Box 43105, Olympia, Washington 98504-3105; phone: 360-709-4600; email: pvs@wtb.wa.gov; web: wtb.wa.gov.

Nothing in the policy prevents the student from contacting the Workforce Board at 360-709-4600 at any time with a concern or complaint.

CANCELLATION AND REFUND POLICY for Non-VA Students

This Refund Policy is for any individual course, taken by an individual. When refunds are made, they are distributed first to the funding source providing the tuition payment.

1. The school must refund all money paid if the applicant is not accepted. This includes instances where a starting class is canceled by the school.
2. The school must refund all money paid if the applicant cancels within five business days (excluding Sundays and holidays) after the day the contract is signed or an initial payment is made, as long as the applicant has not begun training.
3. The school may retain an established registration fee equal to ten percent of the total tuition cost, or one hundred dollars, whichever is less, if the applicant cancels after the fifth business day after signing the contract or making an initial payment. A “registration fee” is any fee charged by a school to process student applications and establish a student record system.
4. If training is terminated after the student enters classes, the school may retain the registration fee, plus a percentage of the total tuition as described in the following table:

If the student completes this amount of training:	The school may keep this percentage of the tuition cost:
One week or up to 10%, whichever is less	10%
More than one week or 10% whichever is less but less than 25%	25%
25% through 50%	50%
More than 50%	100%

5. When calculating refunds, the official date of a student’s termination is the last day of recorded attendance:
 - When the school receives notice of the student’s intention to discontinue the training program; or,
 - When the student is terminated for a violation of a published school policy which provides for termination; or,
 - When a student, without notice, fails to attend classes for thirty calendar days.
6. All refunds must be paid within thirty calendar days of the student’s official termination date.
7. No refund will be made for the cost of the tools and/or equipment issued to the student that is non-returnable, as the student will retain those.

CANCELLATION AND REFUND POLICY for VA Students

OXARC agrees that if a veteran student fails to enter the course, withdraws, or is discontinued at any time prior to completion of the course, the unused portion of paid tuition, fees and other charges will be refunded or the debt for such tuition, fees and other charges will be canceled on a prorated basis, as follows:

1. **Registration Fee.** An established registration fee in an amount not to exceed \$10 need not be subject to proration. Where the established registration fee is more than \$10, the amount in excess of \$10 will be subject to proration. OXARC currently does not have a registration fee.
2. **Breakage Fee.** Where the school has a breakage fee, it may provide for the retention of only the exact amount of breakage, with the remaining part, if any, to be refunded. OXARC currently does not have a breakage fee.
3. **Consumable Instruction Supplies.** Where OXARC makes a separate charge for consumable instruction supplies, as distinguished for laboratory fees, the exact amount of the charges for supplies consumed may be retained by any remaining part must be refunded.
4. **Books, Supplies and Equipment.** (a) OXARC will make a refund in full for the amount of the charge for unissued books, supplies and equipment when: (1) The school furnishes the books, supplies and equipment; (2) The school includes their costs in the total charge payable to the school for the course; (3) The veteran or eligible person withdraws or is discontinued before completing the course. (b) The veterans or eligible person may dispose of issued items at his or her discretion even if they were included in the total charge payable to the school for the course.
5. **Tuition and Other Charges.** Where the school either has or adopts an established policy for the refund of the unused portion of tuition, fees and other charges subject to proration, which is more favorable to the veteran or eligible person than the approximate pro rata basis as provided in this subparagraph, such established policy will be applicable. Otherwise, the school may charge a sum which does not vary more than 10% from the exact pro rata portion of such tuition, fees, and other charges that the length of the completed portion of the course bears to its total length. The exact proration will be determined on the ratio of the number of days of instruction completed by the student to the total number of instructional days in the course.
6. **Prompt Refund.** In the event that the veteran, spouse, surviving spouse, or child fails to enter the course, or withdraws, or is discontinued there from at any time prior to completion of the course, the unused portion of tuition, fees and other charges paid by the individual shall be refunded promptly. Any institution which fails to forward any refund due within 30 days after such a change shall be deemed, prima facie, to have failed to make a prompt refund, as required by the subparagraph.

GENERAL INFORMATION

CIVIL RIGHTS POLICY

OXARC admits students of any sex, religion, race, color, nationality and ethnic origin to all the rights, privileges, educational offerings and activities generally accorded or made available to students at OXARC. It does not discriminate against students or potential students on the basis of race, creed, color, national origin, sex, veteran or military status, sexual orientation, or the presence of any sensory, mental, or physical disability or the use of a trained guide dog or service animal by a person with a disability. on the basis of sex, religion, race, color, disability, nationality or ethnic origin in administration of its educational policies, admissions policies and other school-administered programs.

REASONABLE ACCOMODATIONS

In accordance with applicable state and federal law, OXARC will make reasonable accommodations for students with a disability that does not cause undue hardship to the school.

If you have a disability that affects your ability to perform in the school and you believe you may need an accommodation, you must discuss your circumstances with the school director or student services coordinator as soon as you are aware of the need for this accommodation.

RELIGIOUS ACCOMODATIONS

OXARC will make good faith efforts to provide reasonable religious accommodations to students who have sincerely held religious practices or beliefs that conflict with a scheduled course/program requirement. Students requesting a religious accommodation should make the request, in writing, directly to their instructor with as much advance notice as possible. Being absent from class or other educational responsibilities does not excuse students from keeping up with any information shared or expectations set during the missed class.

Students are responsible for obtaining materials and information provided during any class missed. The students shall work with the instructor to determine a schedule for making up missed work.

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We are not like other traditional *Welding Schools*; fact is we are not a traditional school at all.

We have created an opportunity for those wanting to learn how to weld, but not looking for a traditional educational setting.

We are *truly* a

**100% hands on,
Skill based,
Independent study,
Instructor *supported*,
Alternative learning,
Strategy- training center,**

that creates personalized courses to fit **YOU** the student's objectives while here.

DESIGNING YOUR WELDING COURSES

HOW TO PICK THE RIGHT WELDING COURSE

Our primary welding processes includes FCAW, SMAW, GMAW, and GTAW. You can progress through each welding process from Beginner, Intermediate, Advanced 1, and Advanced 2 levels for a comprehensive skill development journey.

Each 5 week course hones in on mastering a specific welding process, aligning with your desired welding career. While our courses focus on mastering individual welding processes, we also encourage you to try several welding processes.

“What welding process should I sign up for?”

Each Course is 5 weeks long. First choose from the follow welding processes:

FCAW

SMAW

GMAW

GTAW

If you're unfamiliar with these welding processes, please take a moment to peruse the following pages to gain a better understanding of which process might suit you best.

Explore the option of mix and matching processes to broaden your skill set, providing versatility in the ever-evolving field of welding.

FCAW

Flux-cored arc welding (AKA dual shield or self-shielding welding) is a flexible welding process suitable for all position welding, meaning you can weld in the flat, horizontal, vertical and overhead position. It is highly productive and provides high quality welds with a good appearance. Typically used in structural steel. **This process is widely sought after in our area.** FCAW can be used with or without gas. When used outdoors in construction it can be performed even in windy conditions, but when FCAW is used with gas it is limited to indoors only; no more than 5 - 10 mph before the weld gets compromised.

Common careers (but not limited to) using FCAW:

- Structural Steel Shops
- Fabrication Shops
- Construction

SMAW

Shielded metal arc welding (AKA stick welding) is a manual arc welding process that uses a consumable electrode. SMAW is a flexible welding process suitable for all position welding, meaning you can weld in the flat, horizontal, vertical and overhead position. Typically used in construction and quick repairs on a farm, but extends beyond these specific scenarios. SMAW has several benefits, including portability, simplicity, and versatility which makes it a valuable skill to learn.

Common careers (but not limited to) using SMAW:

- Construction
- Fabrication
- Farm repair
- Pipe Welding

GMAW

Gas metal arc welding (AKA MIG welding) can be used in four different modes of metal transfer - short circuit, globular, spray or pulse spray- making it one of the most common types of welding processes. Depending on what mode of metal transfer you are in can limit or expand what you are able to weld. Some modes allow you to weld in all position welding, meaning you can weld in the flat, horizontal, vertical and overhead position. While others are limited to flat and horizontal only. Again, depending on the mode of metal transfer GMAW can allow you to weld on thin gage material or heavy structural steel.

Common careers (but not limited to) using GMAW:

- Trailers and containers
- Manufacturing
- Automotive maintenance and production
- Custom fabrication
- Metal Sculpture

GTAW

Gas tungsten arc welding (AKA TIG welding) requires great precision. The welder holds the torch in one hand and feeds a filler rod into the weld pool with the other hand while also controlling the electrical current to the weld puddle with a foot pedal or other device on the torch at the same time. GTAW is widely known as a challenging process and takes a delegate hand to master. **It is highly recommended to take at least 15 weeks to truly start to understand this complex process.**

Common careers (but not limited to) using GTAW:

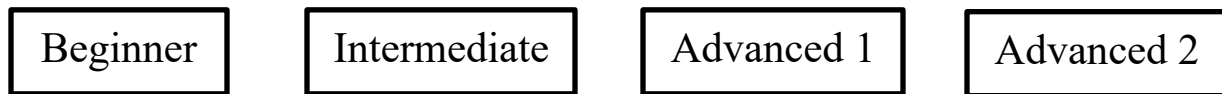
- Custom fabrication
- Aerospace manufacturing
- Piping Welding
- Race car fabrication and motorsports applications
- Motor vehicle repair
- Nuclear
- Metal Sculpture

If you are not sure what process to choose, don't worry; our instructors can help guide you on day one. Simply decide how LONG of a course you would like to take. There is no limit to how many weeks you wish to take. The average student takes 15 weeks.

Now think about how skilled you want to be in each process you picked:

It's important to note that each course has a duration of 5 weeks, providing a structured time frame for comprehensive learning and skill development. This time frame allows participants to delve into the intricacies of each welding technique, ensuring a thorough understanding and proficiency by the end of the course.

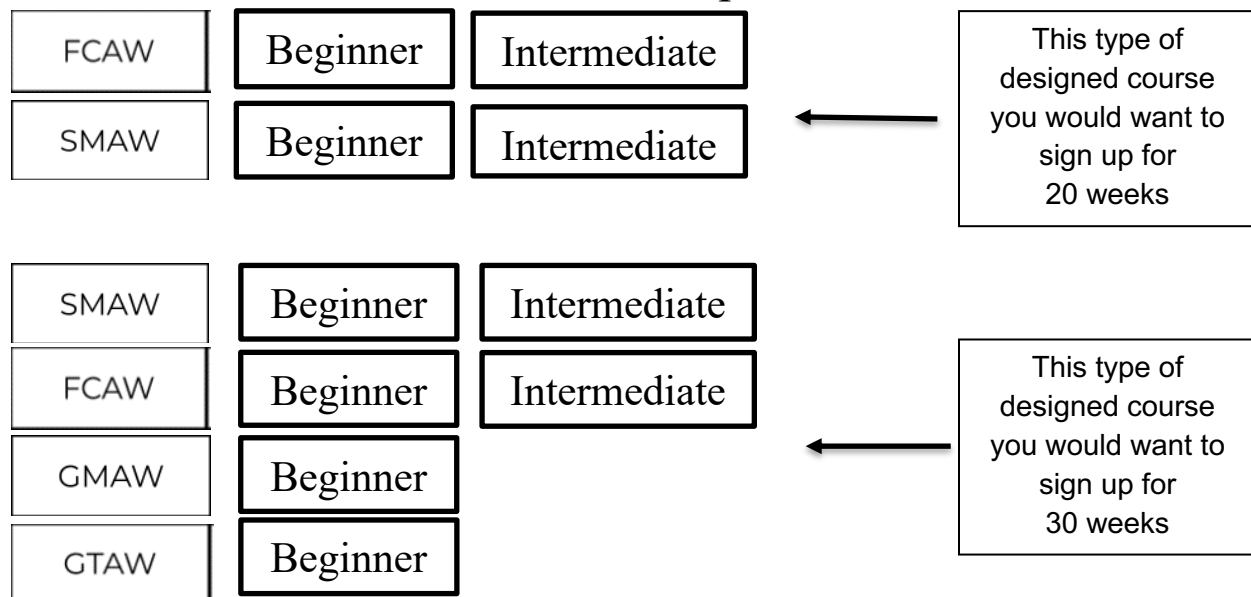
“How many weeks should I sign up for?”



Explore the option of mix and matching processes to broaden your skill set, providing versatility in the ever-evolving field of welding.

That being said, individuals have the flexibility to progress through any welding process, starting from Beginner and advancing all the way to Advanced 2. Alternatively, participants can opt to explore multiple welding processes within a single course, tailoring their learning experience to reach their desired proficiency level.

Course Examples:



Feel free to customize a course that precisely meets your specific needs and preferences. The aforementioned examples are simply provided as illustrations and can be adapted according to your unique requirements.

The following pages go more in-depth on what is covered in each course.

Beginner Welding

Total Clock Hours: 160

Monday-Thursday, 7:00 am - 3:00 pm

This is a hands-on course designed around the student doing the actual welding and fabrication 100% of the time. The instructor will train each student in the proper techniques and procedure necessary for producing code approved welds. The goal by the end of this course is to pass a WABO & AWS D1.1 2G qualification test. In a professional setting 98% of the time beginner welders will be required to weld in the 2G or horizontal position.

Course Description:

On the initial day of the course, students will acquire the skill of flame cutting for their welding materials, followed by comprehensive training on proper material preparation techniques. Subsequently, they will gain practical experience in setting up their welding machines and commence welding in the flat position. This hands-on learning process involves distinguishing between a cold weld and a hot weld, honing in on the optimal parameters such as Amps/Volts control, angle, and travel speed, and cultivating the ability to identify and understand the significance of the welding puddle.

As the course progresses, students will delve into more advanced topics, starting with an exploration of five different joints, with a specific focus on T-joints. Proficiency in using a fillet gage on T-joints to ensure compliance with industry standards will be emphasized. This foundational knowledge prepares students for weld testing upon completion of their training. The curriculum advances to groove out joints, preparing students for their first weld qualification test in the 2G position. Concurrently, they will learn the essential skill of Carbon Air Arcing, a crucial aspect for achieving Complete Joint Penetration (CJP) when transitioning into the professional welding realm.

The training also encompasses guidance on reading and interpreting a basic Welding Procedure Specification (WPS), aligning their welding practices with the specified standards before undertaking the qualification test. Throughout the duration of the course, students will receive instruction in fundamental fabrication skills and basic blueprint reading, directly relevant to the welding projects they undertake. Additionally, they will have the opportunity to participate in optional hands-on experimental lessons, new welding machine demonstrations, optional field trips, and engaging sessions with guest speakers—all provided at no extra cost. This

comprehensive approach ensures that students not only master the technical aspects of welding but also gain a broader understanding of the field and its practical applications.

COST: \$3,000.00

One 2G WABO/AWS D1.1 Qualification Test

All base materials Consumables and Gases

Are included with the cost

Intermediate Welding

Total Clock Hours: 160

Monday-Thursday, 7:00 am - 3:00 pm

This is a continuation course for students that have already taken our Beginner Welding or hold a WABO & AWS D1.1 2G qualification in the *same* welding process they wish to advance in. Intermediate Welding is a hands-on course designed around the student doing the actual welding and fabrication 100% of the time. The instructor will train each student in the proper techniques and procedure necessary for producing code approved welds. The goal by the end of this course is to pass a WABO & AWS D1.1 3G and 4G qualification test.

Course Description:

This course immerses welders directly into vertical T-joints, progressing to the acquisition of fundamental skills such as basic fit-up, pre-heating procedures, and understanding basic joint tolerances. Emphasis is placed on mastering the art of welding these joints with precision. Participants will also gain proficiency in operating the track torch to create grooves that adhere to industry standards, specifically for 3G practice tests.

Upon achieving proficiency in the 3G position, students will expand their expertise by venturing into welding in the overhead position using a 4T technique while simultaneously honing their skills in the 3G position. Progressing further, participants will advance to the 4G position, guided by instruction on reading and implementing a basic Welding Procedure Specification (WPS) before undertaking the qualification test. This stage prepares them for the challenging 3G and 4G WABO/AWS D1.1 Qualification Test.

Throughout the duration of the course, participants will receive instruction in basic fabrication skills and fundamental blueprint reading, directly applicable to the welding projects they undertake. Furthermore, they will have the option to engage in hands-on experimental lessons offered by the instructor at no extra cost, attend demonstrations of new welding machines, partake in optional field trips (open to all students), and benefit from insights shared by guest speakers.

This comprehensive approach ensures that students not only develop technical proficiency in welding but also gain a holistic understanding of the field's practical applications.

COST: \$4,200.00

3G & 4G WABO/AWS D1.1 Qualification Test

All base materials Consumables and Gases

Are included with the cost

Advanced Welding

Total Clock Hours: 160

This course is 160 hours

Monday-Thursday, 7:00am -3:00pm

This course is designed for the experienced welder. Welders taking this course should have a vast experience at welding and have already past a 2G, 3G and 4G qualification test in the *same welding process* they wish to advance with. This course will be tailor-made for each student. The curriculum is designed around the welder challenging their skills in field related projects and challenges. All welding will be on mild steel.

Course Description

This type of course is developed around a specific application. It could be a potential employer who needs welders with the experience and qualifications to perform welding as needed to their welding procedures.

COST: \$3,500.00

All base materials Consumables and Gases

Are included with the cost

Advanced Welding II

Total Clock Hours: 160

This course is 160 hours

Monday-Thursday, 7:00am -3:00pm

Prerequisites:

Advanced Welding Course, 160 hours.

This course is designed for the experienced welder in an **OPEN** shop format. Welders taking this course should have excellent welding skills and ability. This course will be tailor-made for each student focusing on larger projects and learning how to fabricate. All welding will be on mild steel.

COST: \$3,500.00

All base materials Consumables and Gases
Are included with the cost

Personal Welding Gear

Each student is required to have the following personal welding gear prior to, and during, each day's welding course. OXARC includes a tool bag for the beginner and intermediate courses or the student can provide their own, but **MUST** have the following tools prior to the first day:

Personal Welding Gear included in tool bag for beginner and intermediate:

- Welding Helmet with replacement cover lenses
- Welding gloves and leathers
- Heat Glove/Reflective Shield
- Chipping Hammer
- Wire Brush
- Pliers, Straight Jaw
- 12" Adjustable End Wrench
- Wire Cutters or Wire Pliers
- 25' Tape Measure, Magnetic
- Fillet Gauge
- Burning/Cutting Goggles
- Flashlight & Batteries
- Safety Glasses
- Soapstone/Soapstone Holder

Person Protective Equipment (PPE) NOT included:

- Cotton or Leather clothing. Nylon-type clothing should NOT be worn due to burns.
- Leather work boots, preferably steel toed. Tennis shoes are NOT accepted.
- Remove all jewelry and body piercing prior to class.
- Any loose clothing and/or long hair need to be secured.

OXARC Supplied Materials

OXARC will supply all welding equipment and welding consumables for welding courses. This will include:

- Electrodes
- Material to perform welds
- Gases for welding and cutting
- Handouts/Pocket Guides

Qualification Testing

Welders who can successfully pass their Welding Course(s) will be given the opportunity to take qualification test to one or more of the following standards: AWS, WABO, and ASME.

This testing is given upon successful completion of course(s), or if the student displays ability to pass the test. If additional testing is requested, it will require scheduling along with separate payment.

The qualification tests are:

Washington Assoc. Building Officials (WABO)	\$70.00
FCAW Plate Unlimited - 2G or 3G	\$190.00
FCAW Plate Unlimited - 3G/4G	\$380.00
FCAW Pipe Test - 6G or 6GR (+\$50)	\$700.00
SMAW Plate Unlimited - 2G or 3G	\$190.00
SMAW Plate Unlimited - 3G/4G	\$380.00
SMAW Pipe Test - 6G or 6GR (+\$50)	\$700.00

Pricing is not guaranteed and is subject to change. Other Qualification Testing Available