

Sno-Isle Tech Skills Center

**Welding/Metal
Fabrication Program**



Bob Throndsen
Instructor

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Welding & Metal Fabrication

COURSE DESCRIPTION

This industry based shop environment is designed for the student who would like to receive a general metal working background as a foundation for continuing education or a trade-vocational career. This one/two year program can "SPARK" an interest in the trade of welding and metal fabrication. Welding, fabrication and safety are taught with a blend of lecture, assignments and hands-on competencies that maintain the student's interest and foster a deeper appreciation of the trade. Students work in a classroom and shop environment developing skills in many types of welding: stick, wire feed, heli-arc, flux core, etc. Oxy fuel cutting, hand plasma arc, computerized plasma arc and basic fabrication are also introduced. You will learn how to take pride in your work as you are signing your name with every weld. The welding team keys to success consists of strong work ethics, positive attitude, ability to follow and understand written and verbal instructions, basic math and measuring skills, plus the ability to be self-directed and to work safely, independently and as a team member are all essential skills to succeed in this program.

LEARNING OBJECTIVES

Students learn general shop safety, basic hand tools, common welding and fabrication equipment, employability skills and professional standards, shop leadership roles, to cut and join metal using gas torch, arc and wire-feed welding equipment; repair broken metal parts on machinery, equipment, boats and structures. Students can be prepared to meet industry certification requirements as a certified welder upon successful completion of the program. Students will learn: shielded metal arc welding (SMAW), gas tungsten arc welding (GTAW), gas metal arc welding (GMAW), flux-core arc welding (FCAW), air carbon arc cutting, plasma arc cutting, and oxy-fuel gas cutting and welding.

SAFETY

Safety is the first priority at Sno-Isle. Students will be required to successfully complete a number of safety courses and tasks to demonstrate their knowledge of safety. Students will have ongoing opportunities to learn about safety throughout their time at Sno-Isle. Students must understand that tools and equipment that they are unfamiliar with shall NEVER be used until proper training and instruction has been provided. It is an educational and professional expectation that this be followed to prevent injury or death to your student and/or others.

COURSE EXPECTATIONS

Students will be asked to verbally relate what they've learned to their peers in a group discussion format. Students will be assigned written work and reading assignments that will reinforce the lesson plans. After thorough review the students will be given hands on assignments. Full scale individual projects and all class welding projects will bolster objectives. The students will be checked for learning by written exams. The instructor will demonstrate proper safety and the physical skills that students will need to learn. The instructor will then guide the students individually until the students have acquired acceptable industry proficiency. Students will be asked to perform skills individually for assessments. Every assessment will be geared to meet or exceed industry standards.

Professionalism is the core of this program! Individuals are expected to model a list of professional standards created by industry partners. Students are also expected to be responsible for their education and actions while enrolled in this program. The goal is to learn the fundamental employability skills required for success after high school. All students are encouraged to continue on to post-secondary education or apprenticeship program related to the industry to further support their goals.

Students are also expected to consistently work on their shop competencies along with all other classroom assignments, tasks, and responsibilities. Daily journals and daily points are the bulk of a student's grade and an important expectation of this program. Students who would like the opportunity to work on special shop projects must demonstrate that they can maintain their grade, stay on task, manage their time wisely, and are dependable.

CERTIFICATE OPPORTUNITIES

21st Century skills for soft skills and welding

SP2 safety and welding certificates

OSHA 10 certificate

Progress towards American Welding Society certificate

Progress towards WABO – Washington Association of Building Officials

Progress towards Associates Degree in Welding at Everett CC or Lake Washington TECH Institute

CAREER PATHWAYS

- Metal fabrication
- Oil field welding
- Pipeline welding
- Agricultural fabrication
- Maritime
- Boiler makers union
- Iron workers union
- Sheet metal union
- Lots more!

ASSIGNMENTS AND GRADING

Students will be assessed in a competency-based method that will track their ability to demonstrate manipulative skills, cognitive skills, and employability skills. Written assessments will be given periodically throughout the year. Exams will have multiple choice, true/false, and completion problems. Most exams include math problems that may require drawings, computations, and written explanations.

- Students will need to demonstrate pre-apprenticeship workman-like skills
- Students will need to translate verbal and written instructions to real work settings
- Students will be expected to show conscientious safe behaviors
- Students will need to demonstrate effective communication and leadership skills
- Students will need to compile a portfolio of all class assignments, projects, and handouts
- Students will be expected to complete a resume and cover letter
- Students will be required to achieve 100% proficiency on safety exams to use tools and equipment
- Students must gain 80% proficiency on all written exams to achieve industry standards
- Ample time is allowed for homework, tests and competencies.

Grades are available through your family access account and are updated regularly. Grades are based on the following total points: Attain identified knowledge, skills, and abilities as well as industry standards, demonstrate knowledge and application of related theory, demonstrate attainment of 21st century skills, quality of work completed, adherence to all safety rules and expectations, class work, daily participation in practice activities, homework and tests.

PRE-REQUISITES AND KEYS TO SUCCESS

- Junior/Senior standing
- Returning students must have a B or better their first year, appropriate paperwork and instructor approval.
- Students will be required to read and comprehend professional technical manuals; perform required business math skills; and communicate effectively in written and oral presentations.
- A strong command of math skills to include addition/subtraction/multiplication/division of whole numbers and fractions, measurement principles, plus an understanding of geometry will be necessary in this program.
- Students should possess good manual dexterity, spatial skills, have the ability to work on feet for long period of time and be able to lift heavy objects.
- Ability to work safely with others and individually
- Students need to complete at least one year for minimum skill development.
- Model professional standards and good work ethics
- Be able to follow written and verbal instructions
- Have good communication and interpersonal skills
- Make appropriate choices
- Take responsibility for their education and actions
- Able to write legibly
- **Follow safety rules at ALL TIMES**

WELDING INSTRUCTOR

Instructor: Bob Throndsen

Classroom number: 425-348-2235

Email: throndsenrm@mukilteo.wednet.edu best way to contact me

Attendance line: 425-348-2222 press #1

Main office number: 425-348-2220

Sno Isle Director Wes Allen allenrw@mukilteo.wednet.edu

Sno Isle Asst Director Kim Brown brownks@mukilteo.wednet.edu

Class hours:

Mornings: 7:50 to 10:25 AM

Afternoons: 11:05 to 1:40 PM

The Weld Shop is the first door in Building 2

We follow Mukilteo School District guidelines

If there is snow; call 425-348-2222 option #9 (24 hr. line)

Sno Isle Tech Skills Center is a closed campus and is administered by Mukilteo School District and follows MSD School Board Policies and Procedures.

COURSE INFORMATION

Length of program: 1 – 2 years

Occupational/elective high school credits: 1.5 credits per semester

CTE dual credit through Everett CC*:

Weld 190 Oxyacetylene Welding 5 credits

Weld 191 Basic Arc Welding 5 credits

Weld 192 Advanced Arc Welding 5 credits

Weld 194 TIG Arc Welding 5 credits

Weld 195 MIG Arc Welding 5 credits

Weld 196 Flux Cored Arc Welding 5 credits

30 credits total

*If all requirements and paperwork are completed on time through EvCC.

CTE dual credit through Lake Washington TECH Institute*

Weld 102 Shielded Metal Arc Welding 7 credits

Weld 103 Flux Cored Arc Welding 7 credits

Weld 105 Gas Tungsten Arc Welding 8 credits

Weld 106 All Cutting Processes 6 credits

28 credits total

*If all requirements and paperwork are completed on time through Lake Washington TECH Institute

COURSE MATERIALS

The course is covered by competency packets and curriculum printed from multiple sources and presented in a simple order. Students will be given visual materials in the form of handouts, and online curriculum. Visual aids such as projectors, computers and white boards will be implemented to help with student understanding of lesson plan concepts. Objectives for daily lessons are written clearly on the board with daily questions and general concepts written and stated to the students each day to start class discussions. Instructor will state the learning targets and give multiple examples for students to draw information from.

LAB FEE

Please note that our program now has a lab fee like the rest of the campus. The lab fee for this course is \$50.00. This lab fee includes materials that will be exclusive for your use, like the consumables we use in this program and a CPR with First Aid card from the Red Cross. I am committed to every student having no barriers to success in the program. If you cannot afford the lab fee, fill out this online form: <https://forms.gle/LybMGQg8aaDJwxRx5> and we will find funding to cover a portion or all of your lab fee. This will also aid you if needed for our shop supply list. It is best to plan ahead and pay the lab fees in the first week of school. I still expect the student to bring their own class and shop supplies. The class supplies will be needed first then after a few weeks of safety we will be out in the shop. The most important item for the shop is a good helmet and I will go over options in our orientation meeting.

CLASSROOM SUPPLY LIST

- 2" notebook
- 1 pack notebook paper
- 1 pencil pouch
- 2 black sharpie pens
- 1 grey or silver sharpie pens
- Several pens or pencils
- 18" steel ruler – optional
- 12' or 16' tape measure

WELDING SHOP SUPPLY LIST

- Central Welding will help you- let them know you are in the program
- Shurelite cup striker & extra flints
- Welding gloves ~ Some like the option of a thinner set also
- Chipping hammer
- Carbon steel wire brush AND stainless steel wire tooth brush
- Oxy cutting glasses tinted – shade 5 or 6
- Welding helmet – shade 10 at least – flip down or auto darkening
 - With extra clear lenses and batteries if it is auto darkening (Stay away from the cheap Harbor Freight helmets)
- Center punch
- MIG Pliers/wire cutters

WELDING SHOP ATTIRE

Coveralls or layers of appropriate clothing

Work jeans – no shorts or sweatpants – long enough to cover boot tops

Leathers – optional

Thick leather smooth top boots, Romeos are OK, preferred steel-toed boots

– NO TENNIS SHOES OR OPEN TOED SHOES

Hats are OK- no nylon webbed trucker hats (they melt to your hair)

100% natural fibers, like wool or cotton

No synthetic materials – nylon, rayon, etc

No jewelry, chains, and no electronic devices are allowed

Proper masks are required for Covid protection as required at the time

COURSE CALENDAR

September -June calendar will be adjusted if there are snow make-up days. A detailed Sno-Isle calendar is available from the office or can be downloaded from our website.

www.snoisletech.com

PROGRAM ADVISORY COMMITTEE (PAC)

Each program at Sno-Isle is required to have Program Advisory Committees that consist of industry partners, former students, instructors, parents, and community members. These committees are vital to the success of each program and hold a minimum of 3 meetings per school year. Committees provide the valuable feedback required to maintain safety and relevance. Their input and participation help to enrich the student experience. Individuals who are interested or know someone who may be interested are encouraged to contact the instructor of that program.

USE OF ELECTRONICS

Students MAY NOT use their cellular phones in class except in the rare occasion they are instructed to do so. This also means NO EARBUDS as students can't hear in the shop or the classroom. Classroom laptops are provided to access the web-based curriculum or repair information. Inappropriate use of cell phones/electronic devices will result in deduction of professionalism points and/or being sent to the office for disciplinary action depending on severity of the violation. Confiscation of cell phones/electronic devices may also occur, and the student may retrieve their device at the end of the period. In a worst-case scenario, a parent/teacher conference may be requested at which time the electronic device will be released to a parent/guardian. The misuse of phones is unacceptable in the workplace and this expectation is modeled at Sno-Isle. Parent/Guardian support of this policy is important and greatly appreciated. Students should refrain from taking video or photos of other students especially when permission has not been granted. Some families ask that students be placed on a "no photo" list and their privacy must be respected. Uploading videos or photos to social media or for malicious intent without permission may lead to disciplinary issues, especially if cyber bullying has been identified. All individuals, including Sno-Isle staff, have an expectation and are entitled to their right of privacy. Sno-Isle is not responsible for stolen or lost electronic devices or personal items.

LOCKERS AND PERSONAL BELONGINGS

Students will be assigned lockers during their time in the Welding program. Students are encouraged to lock up any personal items of value. Sno-Isle is not responsible for any theft or missing items.

TRANSPORTATION

All sending high schools provide transportation to and from Sno-Isle TECH. Students are not allowed to drive to Sno-Isle without sending school, Sno-Isle, and parent permission. Only extenuating circumstances will be considered since assigned parking spots are extremely limited. Please be aware that most sending high schools have a NO DRIVING policy due to liability and the need for increased safety. Violators risk being suspended. Students who must drive due to temporary circumstances (missed bus, doctor, other appointment, etc.) must check in with the main office and acquire a temporary parking pass for each occurrence. This is for temporary circumstances only and must not be abused due to limited parking availability. Please remember that students may not drive if their sending school has a no driving policy. Students who park outside of Sno-Isle TECH's campus risk being disciplined and/or towed at their own expense.

ATTENDANCE

Students are expected to maintain good attendance at Sno-Isle and their sending high school. This is an educational and professional expectation. Students who have unexcused absences or tardies will have professionalism points deducted from their daily score. Students are obligated to attend school each day just like adults are expected to show up for work. You don't get paid unless you show up to do the work. Sno-Isle provides required forms in the event students need to miss class for school-related or personal absences. Students are responsible for making sure these are filled out, signed, and turned in. This will be explained at the beginning of the school year. Students who have an unexcused absence(s) will earn zero points for that day(s). It is also the responsibility of each student to monitor and keep track of their attendance and grades. Mukilteo School District has a new policy regarding vacation days taken during school days. If a family vacation occurs while school is in session, it must be prearranged prior to the absence and approved by the principal (or designee). The principal (or designee) may excuse up to five (5) school days for a prearranged absence per student each school year, if requested at least one week prior to the first absence. An absence may not be approved if it causes a serious adverse effect on the student's educational progress. The student may not be able to achieve the objectives of the unit of instruction as a result of the absence from class. In such a case, a parent/guardian approved absence would have an adverse effect on the student's educational progress, including the grade for the course.

INCLEMENT WEATHER: SCHOOL CLOSURES AND LATE STARTS

In the event of snow or power outages, please tune in to local radio and TV stations. Sno-Isle TECH is part of the Mukilteo School District. 1. When Mukilteo School District is closed due to inclement weather, Sno-Isle TECH will be closed as well. 2. If Mukilteo School District is 1 or 2 hours late due to inclement weather, Sno-Isle TECH will be closed for the AM session, but open for the PM session. 3. When a sending school is closed due to inclement weather, students from that sending school are not expected to attend Sno-Isle and will not be marked absent. 4. When a sending school is operating 1 or 2 hours late due to inclement weather, students from that sending school are not expected to attend the AM Session and will not be marked absent. PM Session students should attend as usual.

The schedules of Sno-Isle and sending high schools do not always align. It is the responsibility of the student to know those schedules. School breaks, early dismissals, half-days, testing, and assemblies should all be taken into consideration. Sno-Isle serves 43 different high schools and is unable to keep up with all schedules and activities of the sending schools.

STUDENT RIGHTS & RESPONSIBILITIES

All students will be provided with a Student Rights & Responsibilities handbook and quiz at the beginning of each school year. It is each student's responsibility to read and understand their rights as a student. While school rules are generally universal, students are still encouraged to review and understand their rights while at Sno-Isle. Students are expected to act professionally and follow the rules at all times.

Academic Honesty and Integrity violations include, but are not limited to:

- 1) Plagiarizing, copying, or submitting any part of another person's work (written, visual, or auditory) as representing one's own work.
- 2) Distribution/Sharing/Receiving of class assignments or test information in written, electronic, or verbal form to/from another student without teacher permission. Students in physical or electronic possession of unauthorized academic materials, whether requested/used or not, may be subject to disciplinary action.
- 3) Using "crib notes": Any use of unauthorized notes on tests/assignments (written notes or electronic devices of any kind).
- 4) Altering or Accessing Official School Documents: A student shall not alter official school documents, either paper or electronic, or open school documents not specifically addressed to the student.

Suspected and confirmed instances of academic dishonesty will be referred to administration for documentation. Sno-Isle TECH Skills Center can support accommodations for learning and health needs. The same as your sending school, we need updated paperwork that states what accommodations are needed. Please turn in any updates to your learning and accommodation plans to me or the Study Center staff.

EQUALITY

Sno-Isle provides equal opportunities to all individuals regardless of sex, race, religion, or other personal beliefs. Bullying of any kind, harassment, and intimidation will not be tolerated and are subject to discipline or removal from Sno-Isle. The disruption to anyone's learning and safety will not be tolerated. Students who witness any of these behaviors must report it to their instructor or staff member.

General Classroom Rules

All general rules of the Sno-Isle Tech Skills Center as well as the Mukilteo School District are expected to be maintained. These policies are outlined in your Student Handbook. In addition, the following rules and regulations will be strictly enforced in the Welding/Metal Fabrication shop.

1. Students will be ready to work each day. Students shall follow the safety rules, wear appropriate clothing and safety equipment and follow the conduct codes as drawn up by the class. Failure to comply will result in consultation with Director.
2. Proper care and cleanup of the work environment is essential and all students will be held accountable. Failure to maintain a clean and safe environment will be dealt with on an individual basis.
3. Students are to use tools and materials in a safe and responsible manner, as instructed by the teacher. Willful destruction, waste or misuse of any materials or tools will be dealt with on an individual basis. Students will be held financially responsible for the replacement, recovery or repair of any tools, machinery or material which are purposely used in an inappropriate manner.

YOU FRY IT, - YOU BUY IT!

4. Students must clear all projects with the instructor before being fabricated. No projects will be allowed that assimilate or could be used as a weapon or cause personal damage.
5. No tobacco products (no chew or chew cans) Failure to comply will result in a consultation with the Director.
6. Language must be respectful and dignified. No swearing will be allowed. Harassment, which is any act that degrades individuals or groups, race, color, ethnicity, gender, sexual orientation, physical or mental disability, religion, etc. will not be tolerated and is prohibited.
7. Pagers or cell phones must be left in locker, car or at sending school. Use will not be permitted during classroom/shop hours.
8. Guests must obtain prior permission from instructor and consent from their sending school if they are a student.

This is a "zero tolerance" behavior policy. This is NON-NEGOTIABLE. Students that engage in inappropriate behaviors that interfere with the safety or learning environment of other students will be subject to disciplinary action which may include suspension and or termination from the class.

This class has a **"three strikes you are out"** policy just like the major leagues. It is the intent of this instructor to provide a safe, productive, positive and disruptive free classroom and learning environment.

CLASSROOM EXPECTATIONS



When I am lecturing, I expect you to listen and not carry on side conversations, I expect to have eye contact, I expect you to participate in discussion, I expect you to take notes, and I expect you to ask questions about any area that is unclear.



When homework is assigned, I expect completed work to be turned in AS YOU COME IN. I expect that NO ONE will use class time to complete an assignment due that day.



When we have a speaker or guest, I expect you to listen attentively. I expect you to ask questions for clarification. I expect you to give the speaker eye contact and the respect of not speaking while they are talking.



When we have a substitute, I expect your best behavior. I expect you to be professional, helpful and follow directions.



No one is allowed in the Instructors office without permission. This means no storage of personal items, no use of phone or computer and please do not touch anything on my desk.



Students are not allowed to leave the shop or classroom during the regular class period without a Pass. This does not include necessary trips to the restroom. Please use only the appropriate restroom. Failure to comply with result in a consultation with the Director.



Each class is responsible for a complete shop clean-up every day. Clean up will be completed at an appropriate time at the end of the class. The Shop Foreman will be responsible for making sure the job is complete before you are excused for the day. If you finish early, please help someone else with their task.



Absolutely no horseplay or adjusting any equipment or machinery not being used by you. Adjusting an arc welding power sources while someone is using it is very dangerous and electrocution is possible. This is grounds for disciplinary action.

REVIEW AND SIGN

WELDING AND METAL FABRICATION

Parents: Rules and regulations are tedious and boring, but we all agree they are necessary for the safety, education and welfare of us all. I thank you for taking the time to read, discuss, and review with your student. Please sign the guidelines that I have set up to make a successful program. This program is operated similar to an employer/employee situation and should be treated as such. There is no "unemployment" here, but there can be "termination". Success can be achieved and I believe your child can reach it with all of us working together.

Please sign all 3 copies of this page. Keep one at home and return 2 copies to school by September ____

Students: Every effort has been made to provide students and parents with the information required to help them succeed during their time at Sno-Isle. If there are any questions, please contact the instructor for questions or clarification. I have read the Welding & Metal Fabrication syllabus in its entirety and understand the expectations and policies of the program. I understand that Sno-Isle models a professional working environment and that everything I do is reflected in my grade. I have also reviewed and discussed this syllabus with my parent/guardian and understand that if there are any questions or concerns, I will communicate them with my instructor.

Student (Printed Name) _____

Student Signature _____

Date _____

Parent Printed Name _____

Parent Signature _____

Date _____

*Due to the dynamic nature of the educational process, adjustments to this syllabus may be made at any time without prior notice. It is the sole responsibility of the student to follow the instructions and expectations of the program. Students will be given as much notice as possible in the event a policy is changed. Mukilteo School District does not discriminate in any programs or activities on the basis of sex, race, creed, religion, color, national origin, age, veteran or military status, sexual orientation, gender expression or identity, disability, or the use of trained dog guide or service animal and provides equal access to the Boy Scouts and other designated youth groups. Inquiries regarding ADA/Access issues at Sno-Isle TECH Skills Center should be directed to Wes Allen, Director (425-348-2220) allenwr@mukilteo.wednet.edu Address: 9001 Airport Road, Everett, WA 98201

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