North of Troy
Toledo 128 miles
Lima 52 miles
Piqua 7.9 miles

Troy
South of Troy
Dayton Intl. Airport 15 miles
Dayton 20 miles
Cincinnati 74 miles

Piqua
LIVING IN TROY, OHIO

Motels  www.welding.org – Tech Training/Corp Services – Student Information
Map & Directions  www.welding.org – About Hobart Institute – Explore Campus
Housing available for Hobart Institute of Welding Technology Students  www.welding.org – Program – Student Information
City of Troy  www.troyohio.gov
Troy Area Chamber of Commerce  www.troyohiochamber.com
Miami County Visitors Bureau  www.homegrowngreat.com

Hobart Arena
www.hobartarena.com
Miami County Fair
www.miamicountyohiofair.com

Southern Ohio Forge and Anvil Association
sofablacksmiths.org

Check us out on social media!
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The training outlined above are not included within the scope of the school's ACCSC institutional accreditation.
HOBART INSTITUTE OF WELDING TECHNOLOGY-

OUR HISTORY

The welding school was started in 1930 as a department of the Hobart Brothers Company. At that time, 4 welding booths were placed in a corner of the Hobart factory and used for training. In May 1940, the school was granted a charter by the State of Ohio as a 501(c)3 nonprofit corporation governed by a board of directors and became known as the Hobart Trade School.

As welding became more popular, the demand for trained welders increased and larger school facilities were required. In 1940, a new all-welded steel building was designed and built to house the welding school operation. Hobart trained thousands of welders for World War II production in 1942-45.

The success of the welding training programs and the acceleration and growth of welding justified the construction of larger training facilities. In 1958, the present Hobart Technical Center, which houses the school, was completed.

Ohio State Board of Career Colleges and Schools approval was received in 1970. In December of that year, the name was changed to Hobart School of Welding Technology. In 1972 the National Association of Trade & Technical Schools granted accreditation to the school.

The demand for trained welders continued to increase and larger facilities were required. Remodeling and a 50,000 sq. ft. expansion took place in 1978. In September of 1991, the name was changed to Hobart Institute of Welding Technology.

Renovations in 2005 brought the Hobart Institute of Welding Technology into the 21st century with enhanced technology. The addition of the Hobart Gallery of Welding History in 2010 provides students and visitors an opportunity to explore the foundation that sets the stage for the present. In 2013, an expansion of 6360 sq. ft. to the existing facility brought 52 additional arc welding booths, universally equipped for all processes for high-scheduling flexibility. Again in 2016, renovations included a 16,309 sq. ft. “Next Generation Welder Learning Facility” training complex added to the campus to enhance the welder learning experience for skill and technical training. Renovations to the main facility in 2017 brought an additional 70 arc welding booths and renovated classrooms.

Over 100,000 people have successfully completed Hobart Institute of Welding Technology courses. We have trained students, both male and female, from all over the world ranging from the individual student directly out of high school to employees of Fortune 500 companies.

OUR PHILOSOPHY

Hobart Institute of Welding Technology is committed to helping individuals develop marketable welding skills through quality training at minimum cost. We are also committed to making industry more competitive by conducting training to solve welding related problems.

Hobart Institute of Welding Technology strives to develop new and better welding training methods and training materials and make welding training available to all.

Hobart Institute of Welding Technology does not discriminate on the basis of disability, race, color, religion, sex, national origin or age.

ACCREDITATIONS AND APPROVALS

Hobart Institute of Welding Technology is accredited by the Accrediting Commission of Career Schools and Colleges (ACCSC No. 000403). The ACCSC is listed by the U.S. Department of Education as a nationally recognized accrediting agency.

Hobart Institute of Welding Technology is recognized as meeting or exceeding educational standards prescribed by the Ohio State Board of Career Colleges and Schools. Our Ohio State Board of Career Colleges and Schools number is 70-12-0064HT.

Hobart Institute of Welding Technology is accredited by the American Welding Society (QC4) to perform qualification of welders in accordance with the AWS® QC7 certificate program.

EMPLOYER IDENTIFICATION NUMBER

Hobart Institute of Welding Technology Federal Employer Identification Number is 31-6032186. Hobart Institute of Welding Technology is a 501(c)3 nonprofit tax-exempt organization.

CREDITS AND AFFILIATIONS

Continuing Education Units

The Continuing Education Unit (CEU) is a nationally recognized standard unit of measurement awarded by the Armed Forces and by many colleges, schools, companies...
Customized Field Training designed to solve specific performance problems at any location worldwide. Call 937-332-9500 ext 9502.

Specialized Training designed to train personnel for specialized welding needs. Training is conducted at the Institute by special arrangement. Call 937-332-9500 ext 9502.

Online Education available from your computer at your own pace. www.welding.org.

Certification Hobart Institute of Welding Technology qualifies operators and procedures to the following codes: AWS®, ASME, API and MIL Specs. Call 937-332-9500 ext 9603.

WORKBOOKS AND TECHNICAL GUIDES
Workbooks and technical guides are to be purchased at the Institute. Books and technical guides are proprietary to HIWT and are offered to students below competitive market rates. Please see the course description and/or course schedule for book fees ($15-$110 each) Books received and used are not returnable. Fees for books not received and used will be refunded. Fees are subject to change without notice.

EQUIPMENT AND MATERIALS
Hobart Institute of Welding Technology supplies the necessary equipment for each welding station and all practice materials and filler metals (except for special applications). The Institute has a full-time support staff to prepare certification quality base metal for student exercises. Scrap metal is not used. You are responsible for your own protective equipment and hand tools. (see pages 17 & 18).

We include a price list for required protective equipment and supplies in this catalog. You can bring your own safety equipment and hand tools or you can purchase them at the Institute.
TRAINING METHODS
Welding training is skills-based and continually updated to reflect the best industrial practices. We follow specific performance objectives and courses are designed to meet specific criteria for each phase of training. We use four proven strategies to teach welding:

Lecture/discussion with audio visual aids to introduce key concepts

Demonstration to model proper technique

Supervised individual practice with one-on-one instructor coaching to give students an opportunity to incorporate new skills

Systematic practical and written testing to ensure that students have mastered key concepts and skills. Weld testing (fracturing, bending or sectioning) is a major part of each skill course to help overcome the fear of on-the-job qualification tests

CLASS SIZE
Average class size is approximately 18 students per instructor. Classes exceeding the ratio of 18:1 may be assigned an additional instructor depending on the duration of the class, total number of students, and the course outline.

Lecture based courses within the accredited programs that do not require individual booth space will not exceed 48 students per instructor. Any lecture based course utilizing the welding labs for a portion of the training will have additional instructors assigned as necessary.

TRAINING HOURS
The classes operate on a 35-hour week, Monday through Friday. Hours of attendance for day shift are 8:00 a.m. to 4:00 p.m. with one hour for lunch and two fifteen-minute breaks. Hours of attendance for evening shift are 4:00 p.m. to 11:30 p.m. with a half-hour for lunch and two fifteen-minute breaks. Each class or laboratory period is a minimum of 50 minutes in length (equaling a clock hour). Scheduled breaks do not exceed 2.5 hours per 35 clock hours of training.

The Institute is in session 49 weeks each year. Holidays observed are New Year’s Day, Memorial Day, Labor Day, Thanksgiving and Christmas.

PREREQUISITE TESTING
If you wish to bypass our introductory courses to enter advanced training you must pass practical welding and written prerequisite tests. See individual course descriptions for tests required and cost for complete prerequisite testing for that course.

Prerequisite testing is scheduled during the week prior to your start date for individual courses. All prerequisite testing must be completed prior to your start date.

Any student failing a course is not allowed to do prerequisite testing in lieu of retaking the course. Any former student returning for additional training after an absence of more than one year may be required to take prerequisite testing to determine skill level. The Institute does not give credit for previous courses completed at other institutions.

Only one attempt to pass any prerequisite test will be allowed.

FACILITIES
The Institute is housed in two facilities on our 12 acre campus. The Main Campus is an 156,000 sq. ft. facility featuring 282 arc welding booths for hands-on training; and 14 air conditioned, A/V equipped classrooms.

Welding booths are metal on three sides with flameproof curtains and ventilation to exhaust smoke and fumes. Booths are equipped with the latest welding power sources and a custom-designed welding table for all-position welding. The oxyacetylene area has 27 welding stations, 6 mechanized flame cutting stations and 10 manual flame cutting stations.

The North Campus is a 16,309 sq. ft. facility featuring 24 arc welding booths for hands-on training; 4 air conditioned, A/V equipped classrooms; and labs for demonstrations and certification services.

Student Parking: Parking is available on campus. Students are encouraged to utilize the parking facilities. Entrance/ exits are located on North Street and Trade Square East. The entrance/exit on Trade Square East is gated and is open between the hours of 7:30 a.m. and 4:00 p.m. The lower level can be accessed by the road that runs between Hobart Institute of Welding Technology (HIWT) and Hobart Brothers.

Safety & Health Note: Tobacco or electronic cigarettes use are not permitted inside the Institute. There are areas outside the facility designated for tobacco users. Complete safety and health information is provided during student orientation.

STUDENT RESOURCE CENTER
The Student Resource Center merges employment assistance and the learning resource system. PC’s are available for students to work on resumes, search and apply for jobs, as well as review welding related videos created by HIWT. The Student Resource Center also offers current welding code books, periodicals and other welding resources for student use. Career Development Representatives are available to assist students in resume preparation and career exploration. The Student Resource Center is open 7:00 a.m. – 5:00 p.m., Monday thru Friday.
Courses offered at Hobart Institute of Welding Technology (HIWT) teach welding techniques and develop the manipulative skills required for each major welding process. Welding technique is stressed above welding theory — as the students must be able to meet the welding performance demands of industry. Consequently, a minimum amount of course time (10% to 20%) is spent on book and classroom study. The remaining time is used for supervised welding practice.

Students may take courses to develop skill in one major process — or, in order to achieve broad welding skills, may take courses in multiple areas of interest.

No audio or audio-visual recording of classes will be permitted. Tuition and Book Fees subject to change.

**WTB101**

**WELDING TECHNOLOGY & BLUEPRINT READING**

**2 WEEKS | 70 CLOCK HOURS | 7.0 CEU**

**TUITION $975.00 | BOOK FEES $110.00**

This course is important to the development of knowledge required by industry for employment of welders. Upon completion of the course, the student should have knowledge of all common arc welding processes including industrial applications, arc characteristics, and advantages. The student should have the ability to read symbols and blueprints as they apply to welding.

**Course objective:** To develop a practical understanding of welding with regard to welding processes, and auxiliary welding equipment for the welder. Also, to develop a technical understanding of the information contained on engineering drawings and the use of the information to communicate set-up and welding instructions from the designer to the welder and fitter.

**Course content:** This course presents information on welding safety, welding terms and definitions, basic metallurgy, metal properties, welding processes, symbols for welding according to AWSA2.4 and weld defects and discontinuities. The course also covers mathematics including fractions, decimals and metric conversions, as well as blueprint reading and layout.

**Testing:** To pass this course, the student is required to take 12 written test and must demonstrate their ability to properly layout parts from prints using common layout tools.

**WTB201**

**ADVANCED BLUEPRINT READING**

**2 WEEKS | 70 CLOCK HOURS | 7.0 CEU**

**TUITION $975.00 | BOOK FEES $90.00**

This course is important to enhance the student's knowledge and abilities entering the welding industry. Upon completion of this course, the student should have knowledge of the design procedure and interpreting blueprints and shop drawings and applying this information, the use of measuring tools in layout and assembly, have a basic understanding of codes, specifications and standards and also to be aware of the responsibility of a welder in quality control.

**Prerequisites:** The student must have successfully passed HIWT Welding Technology & Blueprint Reading course. No prerequisites are permitted for this course.

**Course objective:** To develop an understanding of the blueprint design process and interpreting blueprint information for selecting materials, layout, and assembly. To familiarize students with measuring tools, common shop equipment, and interpreting information, symbols, and abbreviations for design blueprints, shop and erection drawings and to create as-built drawings for project level communication.

**Course content:** Week 1 presents the blueprint design process; how codes, specifications and standards are used and how to navigate through them as they relate to blueprints. Common material shapes and how to use tables for material dimensions, weight, and orientation in assemblies. Non-destructive testing and their related abbreviations and symbols are presented. General notes, plan views, architectural drawings, elevations, plan section details, plan legends and material schedules will be covered.
During week 2, applied math and training on the use of various layout tools are presented. The student will practice layout and assembly from blueprints utilizing orthographic views and a bill of materials. Training on the use of weld measuring tools and gauges and their role in quality control will be discussed. Cutting, forming and drilling equipment commonly used in the industry will be covered as will structural bolting.

**Testing:** To pass this course, the student is required to take 11 test and complete assigned classroom work.

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**OAW101**  
**OXYACETYLENE WELDING, CUTTING & BRAZING**  
**2 WEEKS  70 CLOCK HOURS  7.0 CEU**  
**TUITION $1,000.00  BOOK FEES $35.00**

Upon completion of this course, the student should have developed the necessary skills to perform oxyacetylene welding, brazing, manual and mechanized oxyfuel cutting and complete an OSHA10 safety training.

**Course Objective:** To be able to produce quality cuts on various thicknesses of mild steel using both manual and mechanized equipment, produce quality brazed joints on copper pipe, deposit quality fillet and groove welds on carbon steel, and complete OSHA10 safety training.

**Course Content:** This course provides an understanding of oxyacetylene welding, cutting and brazing, as well as OSHA training for the construction industry. It provides training to develop the skills necessary to perform manual and mechanized cutting using the oxyacetylene process on 1/4” to 1/2” thick mild steel. Training is also provided to develop the skills necessary to produce quality welds on 11-gauge fillet welds and butt joints as well as brazing 1” copper piping in various positions. Related information is included on weld quality, application of fuel gases and safety.

**Note:** Headphones are recommended for the OSHA training portion of the class.

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**SMA101**  
**SHIELDED METAL ARC WELDING BASIC**  
**4 WEEKS  140 CLOCK HOURS  14.0 CEU**  
**TUITION $1,750.00  BOOK FEES $35.00**

Upon completion of this course, the student should be able to perform production welding, general maintenance welding and light structural welding.

**Course Objective:** To be able to produce quality multi-pass fillet and single v-groove welds in all positions using E6010 and E7018 electrodes. This course also develops skills to perform in accordance with Welder, Arc (DOT 810.384-014), Production Line Welder (DOT 819.684-010), Tack Welder (DOT 810.684-010) and the arc welding portion of Combination Welder (DOT 819.384-010).

**Course Content:** This course provides the student with a thorough technical understanding of shielded metal arc welding, welding safety, arc welding power sources, and electrode classifications and selection. It also provides training to develop the skills necessary to make quality single and multi-pass fillet and groove welds in all positions on ¼” mild steel plate, and multi-pass groove welds on 3/8” mild steel plate with backing in the horizontal and vertical positions, using direct welding current.

**Testing:** To pass this course, the student is required to take four written tests. The student also must pass the following four skill tests: visual and break test on a fillet weld in the horizontal position using E6010 electrodes, visual and guided bend tests on single v-groove welds in the horizontal, vertical up and overhead positions using E6010 and E7018 electrodes.

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**SMA201**  
**SHIELDED METAL ARC WELDING ADVANCED**  
**4 WEEKS  140 CLOCK HOURS  14.0 CEU**  
**TUITION $1,750.00  BOOK FEES $35.00**

Upon completion of this course, the student should be able to perform bridge code welds and other related structural work, as well as preparation for pipe welding.

**Prerequisites:** The student must have successfully passed the HIWT Shielded Metal Arc Welding Basic course. If this course has not been completed, the following prerequisite tests are required:
SMA301
SHIELDED METAL ARC WELDING
6” PIPE 2G & 5G UPHILL
4 WEEKS  140 CLOCK HOURS  14.0 CEU
TUITION $1,800.00  BOOK FEES $15.00

Upon completion of this course, the student should have developed skills for the pressure vessel and nuclear piping fields.

Prerequisites: The student must have successfully passed the HIWT Shielded Metal Arc Welding Advanced course. If this course has not been completed, the following prerequisite tests are required:

- Pass a guided bend test on 3/8” plate in the horizontal, vertical and overhead positions and pass a written test. **Prerequisite testing charge is $150.00.**

Course objective: To produce high quality single v-groove welds on 6” diameter schedule 80 carbon steel pipe in all positions. Quality is determined through visual inspection and mechanical testing. This course also develops skills for Welder, Arc (DOT 810.384-014).

Course content: This course provides the student with a thorough understanding of uphill pipe welding and weld quality. This course helps to develop the welding skills necessary to produce quality multipass welds on 6” diameter schedule 80 mild steel pipe in the 2G and 5G positions, using E6010 and E7018 electrodes.

Testing: To pass this course, the student is required to take four written tests. The student also must pass visual and guided bend tests on welds produced in the 2G and 5G positions.

SMA401
SHIELDED METAL ARC WELDING
6” PIPE 6G UPHILL
2 WEEKS  70 CLOCK HOURS  7.0 CEU
TUITION $1,050.00  BOOK FEES $15.00

Upon completion of this course, the student should have developed skills for the pressure vessel and nuclear piping fields.

Prerequisites: The student must have successfully passed the HIWT Shielded Metal Arc Welding 6” Pipe 2G & 5G Uphill course. If this course has not been completed, the following prerequisite tests are required:

- Pass a guided bend test on 1/4” plate in the horizontal, vertical and overhead positions and pass a written test. **Prerequisite testing charge is $150.00.**

Course objective: To produce quality multi-pass groove welds with backing in all positions using E7018 electrodes on 1” mild steel in the horizontal, vertical and overhead positions. To produce quality, multi-pass open root groove welds in all positions using E6010 and E7018 electrodes on 3/8” mild steel plates. The quality of welds is in accordance with the various recognized welding codes. This course also develops skills for Welder, Arc (DOT 810.384-014).

Course content: This course provides training to develop skills necessary to produce quality multi-pass groove welds with backing on 1” plate in the horizontal, vertical and overhead positions; to produce quality open root single v-groove welds on 3/8” mild steel plate in horizontal, vertical and overhead positions. Welding related information is also provided on hard surfacing, repair of cast iron and metal identification. In addition, welding related information is included about procedure and welder qualification on destructive and nondestructive testing methods.

Testing: To pass this course, the student is required to take four written tests. The student also must pass visual and guided bend tests on single v-groove welds with backing on 1” mild steel plates in the vertical and overhead positions using E7018 electrodes. Tests are also given on single v-groove welds on 3/8” mild steel plates in the horizontal, vertical and overhead positions using E6010 and E7018 electrodes.
**INDIVIDUAL COURSES**

**Course objective:** To produce quality single v-groove welds on 6” diameter schedule 80 carbon steel pipe in the 6G position. Quality is determined through visual inspection and mechanical testing according to ASME requirements. This course also develops skills for Welder, Arc (DOT 810.384-014).

**Course content:** This course provides the student with a thorough understanding of pipe welding, weld quality, uphill pipe procedures and preheating and interpass heat treatments. This course helps to develop welding skills to produce quality multipass welds on 6” diameter schedule 80 mild steel pipe in the 6G position, using E6010 and E7018 electrodes.

**Testing:** To pass this course, the student is required to take two written tests. The student also must pass a visual and guided bend test on a weld produced in the 6G position.

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**SMA501**

**SHIELDED METAL ARC WELDING 2” PIPE 6G UPHILL**

**2 WEEKS 70 CLOCK HOURS 7.0 CEU**

**TUITION $1,050.00 BOOK FEES $15.00**

Upon completion of this course, the student should have developed skills for the pressure vessel and nuclear piping fields.

**Prerequisites:** The student must have successfully passed the HIWT Shielded Metal Arc Welding 6” Pipe 6G Uphill course. If this course has not been completed, the following prerequisite tests are required:

Pass a visual and guided bend test on a weld produced in the 6G position on 6” pipe using E6010 and E7018 electrodes and pass a written test. **Prerequisite testing charge is $150.00.**

**Course objective:** To produce quality open root groove welds on 6” schedule 80 carbon steel pipe in the 5G and 6G positions using E6010 electrodes. This course also develops skills for Welder, Arc (DOT 810.384-014).

**Course content:** This course provides the student with a thorough understanding of downhill pipe welding procedures and weld quality. It provides training to develop the skills necessary to produce quality welds on open root carbon steel pipe in the 5G and 6G positions, using E6010 electrodes.

**Testing:** To pass this course, the student is required to take two written tests. The student also must pass a visual test on 6” diameter schedule 80 pipe in the 5G position, and must pass a visual guided bend and nick break test in the 6G position.

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**SMA601**

**SHIELDED METAL ARC WELDING PIPE DOWNHILL BRANCH 12-ON-12**

**2 WEEKS 70 CLOCK HOURS 7.0 CEU**

**TUITION $1,250.00 BOOK FEES $20.00**

Upon completion of the course, the student should have an understanding of testing methods used in the service transmission piping fields.

**Prerequisites:** The student must have successfully passed the HIWT Shielded Metal Arc Welding Pipe Downhill course. If this course has not been completed, the following prerequisite test are required:

Pass a visual test on a weld produced in the 5G position using downhill progression and pass a written test. **Prerequisite testing charge is $150.00.**

**Course objective:** To provide students the training necessary to layout, cut, fit and weld a branch connection in accordance with the API 1104 standard branch connection test.
Course content: This course provides the student with demonstration and instruction on the proper layout, cutting and assembly of the branch connection utilizing various hand tools and thermal cutting processes.

Testing: To pass this course, the student will be evaluated on the various stages of the process including layout, cutting and fitting on a branch connection. The student is also required to pass a visual and destructive test in accordance with API 1104 for a standard branch connection.

PLF101
PIPE LAYOUT FOR PIPEFITTERS & WELDERS BASIC
2 WEEKS  70 CLOCK HOURS  7.0 CEU
TUITION $1,075.00    BOOK FEES $55.00

Upon completion of the course, the student should have the ability to fit and weld piping, making the student much more competitive in the job market.

Course objective: To provide fundamentals for layout and fabrication of typical pipe connections and to use mathematics, basic equations and charts for properly fabricating and welding these connections.

Course content: This course provides the student with a basic understanding of welded connections, angular offsets, rolling offsets, fabrication connections, and methods adopted from various pipe fitting handbooks on piping blueprints.

Testing: To pass this course, the student is required to take five written tests and must demonstrate their ability to properly layout and assemble a piping system from a print.

PLF201
PIPE LAYOUT FOR PIPEFITTERS & WELDERS ADVANCED
2 WEEKS  70 CLOCK HOURS  7.0 CEU
TUITION $1,250.00    BOOK FEES $35.00

Upon completion of the course, the student should have the ability to properly layout, fit and weld piping, improving the student’s employability in pipefitting positions.

Prerequisites: The student must have successfully passed the HIWT Pipe Layout for Pipefitters & Welders Basic course. No prerequisites are permitted for this course.

Course objective: To further improve the student’s proficiency of layout and fabrication of typical pipe connections and to use mathematics, equations and charts for properly fabricating and welding these connections.

Course content: This course provides the student with an understanding of offsets around obstructions, threaded connections, industrial pipe bends, valve identification, and methods adopted from various pipe fitting handbooks on piping blueprints.

Testing: To pass this course, the student is required to take seven written tests and must demonstrate their ability to properly layout and assemble a piping system from a print.

GTA101
GAS TUNGSTEN ARC WELDING BASIC
2 WEEKS  70 CLOCK HOURS  7.0 CEU
TUITION $1,000.00    BOOK FEES $35.00

Upon completion of the course, the student should be able to perform production and maintenance welding on mild steel and aluminum commonly used in fabrication and other industries.

Course objective: To be able to produce quality fillet and square groove welds on carbon steel and aluminum in the flat and horizontal positions, using the gas tungsten arc welding process. This course also develops skills for Welder, Arc (DOT 810.384-014), Production Line Welder (DOT 819.684-010), Tack Welder (DOT 810.684-010) and the Arc Welding portion of Combination Welder (DOT 819.384-010).

Course content: This course provides the student with a thorough technical understanding of gas tungsten arc welding, arc characteristics and welding safety. It provides training to develop the skill necessary to make quality gas tungsten arc welds on 16 and 11-gauge mild steel and .125” and .25” aluminum, using direct and alternating current. In addition, material is presented on the metallurgy and welding characteristics of carbon steel and aluminum.

Testing: To pass this course, the student is required to take two written tests. The student also must pass a visual test on 11-gauge carbon steel welded in the horizontal position including a lap joint, t-joint and outside corner, and visual inspection and liquid penetrant test on a multi-pass .25” aluminum single v-groove butt joint welded in the flat position.
GTA201
GAS TUNGSTEN ARC WELDING ADVANCED
2 WEEKS 70 CLOCK HOURS 7.0 CEU
TUITION $1,250.00 BOOK FEES $15.00

Upon completion of the course, the student should have the ability to weld thin gauge stainless steel and titanium for use in various industries including aircraft, refrigeration, medical and many others.

Prerequisites: The student must have successfully passed the HIWT Gas Tungsten Arc Welding Basic course. If this course has not been completed, the following prerequisite tests are required:

Pass a visual test on 11-gauge carbon steel welded in the horizontal position including a lap joint, T-joint and outside corner, and pass a written test. **Prerequisite testing charge is $150.00.**

Course objective: To familiarize the student with the manipulative technique and the characteristics of stainless steel and titanium welding. To be able to produce quality welds on thin gauge materials.

Course content: This course provides the student with a thorough understanding of gas tungsten arc welding on thin gauge stainless steel and titanium. The student will learn to develop the skill necessary to produce quality welds on .040” to .062” stainless steel and titanium in the flat and horizontal positions. In addition, information will be presented on the metallurgy and weld characteristics of titanium and stainless steel.

Testing: To pass this course, the student is required to take one written test. The student is also required to pass tests on a five-plate assembly on .045” stainless steel including an outside corner, butt joint, t-joint, and lap joints with and without filler, a visual tee joint and lap joints with and without filler on .062” titanium in the horizontal position, and submit .062” titanium square groove butt joints in the flat position for x-ray.

GTA202
GAS TUNGSTEN ARC WELDING 2” PIPE
4 WEEKS 140 CLOCK HOURS 14.0 CEU
TUITION $1,800.00 BOOK FEES $15.00

Upon completion of the course, the student should have developed skills for pipe welding in various industries and applications including power generation, refineries, process piping, vessel manufacturing and others.

Prerequisites: The student must have successfully passed the HIWT Gas Tungsten Arc Welding Basic course. If this course has not been completed, the following prerequisite tests are required:

Pass a visual test on 11-gauge carbon steel welded in the horizontal position including a lap joint, T-joint and outside corner, and pass a written test. **Prerequisite testing charge is $150.00.**

Course objective: To be able to produce quality single v-groove welds on 2” diameter schedule 80 carbon steel pipe in all positions. Quality is determined through visual inspection and mechanical testing. This course also develops skills for Welder, Arc (DOT 810.384-014).

Course content: This course provides the student with a thorough understanding of the preparation and techniques used for gas tungsten arc welding pipe. It develops the skills necessary to produce quality groove welds on 2” schedule 80 carbon steel pipe in the 2G, 5G and 6G positions.

Testing: To pass this course, the student is required to take one written test. The student also must pass visual tests on pipes welded in the 2G and 5G positions as well as a guided bend test or radiographic test of a pipe welded in the 6G position.

GTA203
GAS TUNGSTEN ARC WELDING/SHIELDED METAL ARC WELDING 6” PIPE
2 WEEKS 70 CLOCK HOURS 7.0 CEU
TUITION $1,050.00 BOOK FEES $15.00

Upon completion of the course, the student should have developed skills for pipe welding in various industries and applications including power generation, refineries, process piping, vessel manufacturing, utility work and others.

Prerequisites: The student must have successfully passed the HIWT Gas Tungsten Arc Welding Basic course and Shielded Metal Arc Welding 6” Pipe 6G Uphill course. If these courses have not been completed, the following prerequisite tests are required:
Pass a visual test on 11-gauge carbon steel welded in the horizontal position including a lap joint, T-joint and outside corner using the gas tungsten arc welding process; and pass a visual inspection on 6" schedule 80 mild steel pipe welded in the 6G position with backing ring, using the shielded metal arc welding process and E7018 low hydrogen electrodes and pass a written test. **Prerequisite testing charge is $150.00.**

**Course objective:** To be able to produce quality single v-groove welds on 2" and 6" diameter schedule 80 carbon steel pipe in the 6G position with purge and produce single pass complete joint penetration welds on schedule 10 stainless steel pipe in the 6G position.

**Testing:** To pass this course, the student is required to take two written tests. The student also must pass visual and guided bend tests on welds produced on 2" XXH and 6" schedule 80 mild steel pipe in the 6G position.

**GTA302**

**GAS TUNGSTEN ARC WELDING STAINLESS STEEL PIPE**

**2 WEEKS  70 CLOCK HOURS  7.0 CEU**

**TUITION $1,075.00    BOOK FEES $15.00**

Upon completion of the course, the student should have developed the skills necessary to weld stainless steel pipe in the 6G position for refineries, power generation facilities and other piping applications.

**Prerequisites:** The student must have completed the HIWT Gas Tungsten Arc Welding 2" Pipe course. If this course has not been completed, the following prerequisite tests are required:

Pass a visual test on a .062" stainless steel T-joint in the horizontal (2F) position and pass a visual and guided bend test on an 11-gauge carbon steel square groove in the flat (1G) position using the gas tungsten arc welding process and pass a written test. **Prerequisite testing charge is $150.00.**

**Course Objective:** To be able to produce quality single v-groove welds on 2" diameter schedule 80 stainless steel pipe and square groove welds on schedule 10 stainless steel pipe, in the 6G position.

**Course Content:** This course provides the student with a thorough technical understanding of gas tungsten arc welding pertaining to the aerospace industry. It provides training to develop the skills necessary to make quality argon purged gas tungsten arc welds on AMS 5510 stainless steel sheets down to .040" thick, AMS 5557 stainless steel tubing down to .035" thick, while using .20 and .030 filler wire material. The course will also utilize 1/16" torch components, gas lenses and back purging fixtures. **Testing:** To pass this course, the student is required to take one written test. The student also must pass a stainless steel sheet to sheet fillet weld visual test in the 2F position and a 6G position tube to tube groove weld visual test.

**GTA301**

**GAS TUNGSTEN ARC WELDING AEROSPACE**

**2 WEEK  70 CLOCK HOURS  7.0 CEU**

**TUITION $1,600.00    BOOK FEES $15.00**

Upon completion of the course, the student should be able to deposit quality welds on thin gauge stainless steel using techniques utilized in the aerospace industry.

**Prerequisites:** The student must have successfully passed the HIWT Gas Tungsten Arc Welding Basic course. If this course has not been completed, the following prerequisite tests are required:

Pass a visual test on a .062" stainless steel T-joint in the horizontal (2F) position and pass a visual and guided bend test on an 11-gauge carbon steel square groove in the flat (1G) position using the gas tungsten arc welding process and pass a written test. **Prerequisite testing charge is $150.00.**

**Course objective:** To be proficient in aerospace tube and sheet welding on thin gauge stainless steel fillet and groove welds in the flat, horizontal, vertical and 45° fixed positions using the gas tungsten arc welding process. This course also develops skills pertaining to AWS® D17.1 welder qualification and production welding.
GMA101
GAS METAL ARC WELDING BASIC
2 WEEKS 70 CLOCK HOURS 7.0 CEU
TUITION $1,000.00 BOOK FEES $35.00

Upon completion of the course, the student should be able to perform production and maintenance welding on mild steel including high volume fabrication, automotive assembly and repair.

Course objective: To produce quality multiple pass fillet welds and groove welds on carbon steel plate in all positions, using short circuiting transfer. Quality is determined through visual inspection and mechanical testing. This course also develops skills for Welder, Arc (DOT 810.384-014), Production Line Welder (DOT 819.684-010), Tack Welder (DOT 810.684-010), and the arc welding portion of Combination Welder (DOT 819.384-010).

Course content: This course is designed to provide the student with a thorough technical understanding of welding safety, gas metal arc welding, equipment adjustments, metal transfer and shielding gases. It also provides training to develop the skill necessary to make quality gas metal arc welds in all positions on mild steel plate ranging from 11-gauge to 3/8" using short circuit transfer. This course also illustrates problems associated with welding situations and provides corrective information.

Testing: To pass this course, the student is required to take one written test. The student must also pass visual and radiographic test on a single v-groove stainless steel pipe joint welded in the 6G position, a visual test on a stainless steel to carbon steel single v-groove pipe joint welded in the 6G position and a visual test on a schedule 10 stainless steel pipe joint welding in the 6G position.

GMA201
GAS METAL ARC WELDING ADVANCED
2 WEEK 70 CLOCK HOURS 7.0 CEU
TUITION $1,000.00 BOOK FEES $15.00

Upon completion of this course, the student should be able to perform structural welding related to buildings, bridges and production welding on light, medium and heavy assemblies.

Prerequisites: The student must have successfully passed the HIWT Gas Metal Arc Welding Basic course. If this course has not been completed, the following prerequisite tests are required:

Pass a 3/8” plate open root guided bend test in the horizontal, vertical down, and overhead positions, and pass a written test. Prerequisite testing charge is $150.00.

Course objective: To produce quality multiple pass fillet welds and groove welds on carbon steel and aluminum using spray and pulsed spray transfer. This course also develops skills for Welder, Arc (DOT 810.384-014).

Course content: This course provides training on spray and pulsed-spray transfers for both carbon steel and aluminum. Short-circuit transfer is not covered in this course; it is covered in the Gas Metal Arc Welding Basic course. Spray and pulsed-spray transfer provide high deposition rates and pulsed-spray transfer can be used in all positions.

Testing: To pass this course, the student is required to take two written tests. The student also must pass visual inspection and guided bend tests in the horizontal, vertical down, and overhead positions.

Testing: To pass this course, the student is required to take two written tests. The student also must pass visual inspection and guided bend tests in the horizontal, vertical down, and overhead positions.

GMA201
GAS METAL ARC WELDING ADVANCED
2 WEEK 70 CLOCK HOURS 7.0 CEU
TUITION $1,000.00 BOOK FEES $15.00

Upon completion of this course, the student should be able to perform structural welding related to buildings, bridges and production welding on light, medium and heavy assemblies.

Prerequisites: The student must have successfully passed the HIWT Gas Metal Arc Welding Basic course. If this course has not been completed, the following prerequisite tests are required:

Pass a 3/8” plate open root guided bend test in the horizontal, vertical down, and overhead positions, and pass a written test. Prerequisite testing charge is $150.00.

Course objective: To produce quality multiple pass fillet welds and groove welds on carbon steel and aluminum using spray and pulsed spray transfer. This course also develops skills for Welder, Arc (DOT 810.384-014).

Course content: This course provides training on spray and pulsed-spray transfers for both carbon steel and aluminum. Short-circuit transfer is not covered in this course; it is covered in the Gas Metal Arc Welding Basic course. Spray and pulsed-spray transfer provide high deposition rates and pulsed-spray transfer can be used in all positions.

Testing: To pass this course, the student is required to take two written tests. The student also must pass visual inspection and a guided side bend test and/or radiographic testing in the 2G position using pulsed spray transfers on carbon steel and two visual inspections and etch tests on aluminum in the 3G and 4G positions, using spray and pulsed spray transfer.
GMA202
GAS METAL ARC WELDING PIPE
2 WEEK  70 CLOCK HOURS  7.0 CEU
TUITION $1,050.00    BOOK FEES $15.00
Upon completion of the course, the student should have developed the skills necessary to weld pipe using short circuit transfer for process and transmission piping.

Prerequisites: The student must have successfully passed the HIWT Gas Metal Arc Welding Basic course. If this course has not been completed, the following prerequisite tests are required:

Pass a 3/8” plate open root guided bend test in the horizontal, vertical down, and overhead positions, and pass a written test. Prerequisite testing charge is $150.00.

Course objective: To produce quality single v-groove welds on 6” schedule 80 carbon steel pipe in the 2G and 5G fixed positions, using short-circuit metal transfer. This course also develops skills for Welder, Arc (DOT 810.384-014).

Course content: This course provides the student with a thorough technical understanding of gas metal arc welding, preparation for welding pipe and pipe welding defects. It provides training to develop the skills necessary to produce quality groove welds on 6” diameter schedule 80 steel pipe in the 2G and 5G positions.

Testing: To pass this course, the student is required to take two written tests. The student also must pass visual inspection and guided bend tests on welds produced on 6” schedule 80 steel pipe in the 2G and 5G positions.

FCA101
FLUX CORED ARC WELDING
2 WEEKS  70 CLOCK HOURS  7.0 CEU
TUITION $1,000.00    BOOK FEES $35.00
Upon completion of the course, the student should be able to perform structural welding related to buildings, bridges and production work related to heavy equipment manufacturing.

Course objective: This course enables the student to produce quality groove welds on carbon steel using .045 and 1/16” diameter flux cored electrode wire. This course also develops skills for Welder, Arc (DOT 810.384-014).

Course content: This course is designed to provide training to develop welding skills on carbon steels plates ranging from 3/8” to 1”, using .045 and 1/16” diameter dual shield flux-cored electrodes in all positions.

Testing: To pass this course, the student is required to take two written tests. The student must also pass three visual inspections and guided bend tests on 3/8” plate in the horizontal, vertical and overhead positions using .045 flux-cored wire, and a vertical up test on a 1” block using 1/16” flux-cored wire.
# EQUIPMENT LIST

The following equipment is required for training. You may either purchase any or all of the equipment upon entering training, or you may bring it with you. Safety equipment is mandatory for all classes. Listed below are items required for individual courses and covers items that meet the needs of most students. Depending on usage, replacements may be required. Please note that there may be choices — green or gold lens, lift or fixed front helmet, etc. Should you have questions, please contact the Institute at 937-332-9500, ext. 9608.

**Prices are subject to change without notice. Larger sizes may be higher priced.**

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INDIVIDUAL COURSES

2021-2022 INDIVIDUAL COURSES SCHEDULE

Standard hours of attendance for day shift are 8 a.m. to 4 p.m., Monday through Friday. Standard hours of attendance for evening shift are 4 p.m. to 11:30 p.m., Monday through Friday.

Students will attend orientation on the first day of course – day shift will report at 7:15 a.m. and evening shift will report at 3:15 p.m. Prices are subject to change without notice. * Mon. holidays: Class begins on Tues.

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7.0 CEU Book Fees $110.00

7.0 CEU Book Fees $35.00

7.0 CEU Book Fees $35.00

7.0 CEU Book Fees $15.00

2 weeks 70 clock hours

2 weeks 70 clock hours

2 weeks 70 clock hours

4 weeks 140 clock hours

4 weeks 140 clock hours

4 weeks 140 clock hours

7.0 CEU Book Fees $90.00

7.0 CEU Book Fees $35.00

7.0 CEU Book Fees $35.00

7.0 CEU Book Fees $15.00
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**PLF101**
PIPE LAYOUT FOR PIPEFITTERS & WELDERS BASIC
2 weeks 70 clock hours
7.0 CEU Book Fees $55.00
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02/22/21 03/02/21
03/19/21 04/02/21
04/19/21 05/02/21
05/19/21 06/02/21
06/16/21 07/01/22

**GTA201**
GAS TUNGSTEN ARC WELDING ADVANCED
TUITION $1,250.00
2 weeks 70 clock hours
7.0 CEU Book Fees $15.00
Start Date End Date
01/11/21 02/21/21
01/12/21 02/22/21
02/22/21 03/23/21
03/23/21 04/23/21
04/23/21 05/23/21
05/23/21 06/23/21
06/20/22 07/01/22

**PLF201**
PIPE LAYOUT FOR PIPEFITTERS & WELDERS ADVANCED
TUITION $1,250.00
2 weeks 70 clock hours
7.0 CEU Book Fees $35.00
Start Date End Date
04/05/21 05/05/21
05/19/21 06/19/21
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01/03/22 02/13/22
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04/19/22 05/09/22
05/23/22 06/03/22
06/20/22 07/01/22

**GTA101**
GAS TUNGSTEN ARC WELDING BASIC
TUITION $1,000.00
2 weeks 70 clock hours
7.0 CEU Book Fees $35.00
Start Date End Date
01/25/21 02/05/21
02/22/21 03/02/21
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06/07/22 07/07/22

**GTA202**
GAS TUNGSTEN ARC WELDING 2" PIPE
TUITION $1,800.00
4 weeks 140 clock hours
14.0 CEU Book Fee $15.00
Start Date End Date
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06/02/22 07/02/22

**GTA203**
GAS TUNGSTEN ARC WELDING/SHELDED METAL ARC WELDING 6" PIPE
TUITION $1,050.00
2 weeks 70 clock hours
7.0 CEU Book Fees $15.00
Start Date End Date
02/14/22 03/11/22
03/14/22 04/11/22
04/24/22 05/11/22
05/09/22 06/06/22
06/06/22 07/01/22

COURSE CATALOG 20
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INFORMATION AND POLICIES

VISITS
Visitors are welcome anytime throughout the year. You may schedule a visit online at www.welding.org or contact a Career Development Representative at 937-332-9500 Ext. 9601 to see our facilities, discuss enrollment and schedule courses. All visitors must go to the main office and sign in upon arrival. Cameras are not allowed during visits to the Institute.

ADMISSION REQUIREMENTS

1. Student must be at least 16 years old to participate. If student is under the age of 18 a parent or legal guardian will also need to sign the students Individual Course(s) Enrollment Agreement.
2. Student must be able to understand, read and speak English.

Physical Requirements

1. Student must be able to deal with the physical demands of the welding profession.
2. Student must have at least average use of both hands and arms.
3. Student must be able to stand for long periods of time.
4. Student must be able to kneel or crouch for extended periods of time.
5. Student must be able to lift and carry 50 lbs.
6. Student must have good eyesight, with or without corrective lenses. An eye exam is recommended before student starts the program.

Individuals with a pacemaker or defibrillator are restricted from entering the welding labs and other high voltage areas due to potential risk of electric shock and/or high frequency interfering with the pacemaker or defibrillator signal.

Hobart Institute of Welding Technology does not discriminate on the basis of disability, race, color, religion, sex, national origin, or age regarding admission to its programs and activities.

ADMISSIONS PROCESS

Prior to enrolling be sure to read the catalog in its entirety so you have a clear understanding of what to expect. Give careful consideration to the job market for welders and to your personal objectives for attending welding training. This will ensure that the program or courses you select meet your personal goals.

1. Contact Hobart Institute of Welding Technology (HIWT) at 937-332-9500 if you need guidance in setting your objectives and selecting a program.
2. Apply online at www.welding.org by completing the Individual Course(s) Enrollment Agreement.
3. HIWT will acknowledge the receipt of your Individual Course(s) Enrollment Agreement, start date and shift via email.

REGISTRATION FEES

HIWT requires a $125.00 registration fee before we can process your application. Prices are subject to change without notice.

- Once your start date is assigned, you are permitted one start date change at no additional cost.
- Thereafter, a $125.00 registration fee is assessed per start date change. The fee is payable when you request a start date change, prior to changes being made.
- Start date changes initiated by the Institute are exempt from additional charges.
- If you cannot make your scheduled start date, you must notify the Institute. Failure to notify the Institute will result in forfeiting the $125.00 registration fee.
- If you interrupt your training for twelve months or more, you must pay another $125.00 registration fee before you can resume your training.

Tuition and Book Fees:

Tuition and book fees are due in advance one week prior to the course start date. If payment is not received by this date, the student will not be allowed to start the course.

You may pay by cash, check, money order or credit card. For companies or agencies sponsoring students, the Institute will invoice against purchase orders. Purchase orders must accompany the Individual Course(s) Enrollment Agreement. Students will be charged a fee for any checks returned due to insufficient funds.

*Prices are subject to change without notice.
AWS® QC7 Welder Certifications

AWS® QC7 Welder Certifications are not included in the tuition of individual courses. Students interested in attempting AWS® QC7 Welder Certifications may do so by contacting the Certification Lab to obtain cost and availability. Once determined, the testing fee will be paid in the front office prior to testing.

STUDENT PORTAL

Upon registration each student will be provided instructions to create their Student Portal Account. The Student Portal provides access to announcements, course schedule, payment schedule and making payments online, grades, and more. Also, no specific details regarding attendance, grades or finances can be disclosed to anyone other than the student. However, individual(s) who are permitted to receive specific information can be indicated in the Family Educational Rights & Privacy Act (FERPA) settings in your Student Portal. The Student Portal can be accessed by visiting the school website at https://www.welding.org. It is important to review what is listed in the Student Portal to better understand, monitor, and participate in the educational process.

ORIENTATION

Students will attend orientation on the first day of class. Day shift will report at 7:15 a.m. and evening shift will report at 3:15 p.m.

CANCELLATION/REFUND POLICY

The school agrees to accept cancellations and make refunds according to the following policies:

(a) All monies paid by an applicant will be refunded if the applicant is rejected by the Institute.
(b) The $125 registration fee secures a place in a class. All monies paid by an applicant will be refunded if requested in writing within five (5) days of signing an enrollment agreement. If training is interrupted for twelve months or more, a second payment of the registration fee is required.
(c) Students who have not visited the Institute facility prior to enrollment will have the opportunity to withdraw without penalty within three (3) days following either the regularly scheduled orientation procedures or following a tour of the Institute facilities and equipment.
(d) The Institute will refund all monies paid by the applicant except for the registration fee as long as notice is given prior to commencement of any classes. Any monies due to an applicant shall be refunded within thirty (30) days from cancellation or failure to appear on or before the first day of class.

(e) Refunds due to students who make payments for tuition and fees shall be remitted within thirty (30) days from their date of determination. Title IV refunds to the Department of Education shall be refunded within forty-five (45) days from the date of determination. Hobart Institute of Welding Technology calculates the date of determination as the last date of attendance, with the exception of students not returning from an approved leave of absence. When a student on an approved leave of absence does not return, the date of determination will be the date of withdrawal or dismissal of the student.

A student who withdraws or is dismissed after starting an individual course/class, retaking an individual course/class, or taking a series of courses/classes will forfeit all payments of tuition for that course/class.

COURSE RESCHEDULING

Courses may be added or removed from your schedule by completing a Schedule Change Request form.

• Your request will be confirmed with an email directing you to verify the changes in your Student Portal.
• A schedule change for one course may affect your starting date for other courses.
• If you add a course and subsequently remove it from your schedule, a $100 rescheduling fee may be imposed. This fee must be paid before you begin your next scheduled course.
• Course reschedules initiated by the Institute to enhance skill development are exempt from the fee.

GRADES

Each student is measured and graded in the following areas:

• Welding Skill – 75% of total grade: Students take welding skill tests throughout their training. Each test is prepared and tested according to American Welding Society, American Petroleum Institute, American Society of Mechanical Engineers, or Hobart Institute of Welding Technology Standard Qualification Procedures.
• Welding Knowledge – 15% of total grade: Students take written knowledge tests after each phase of training.
• Attitude – 10% of total grade: Students are evaluated on safety habits, time management, care of equipment, use of materials, attendance, promptness in completing assignments, and cooperation with instructors and other students.

ACADEMIC STANDARDS

Grades are awarded on a designation of 0 to 4. Students must maintain an average of 2.0 grade point average (GPA) to remain in good standing.

0 to 1.9 = unsatisfactory/failed
2.0 to 4.0 = satisfactory/pass
COURSE INCOMPLETE/WITHDRAWAL
A student may voluntarily, verbally or in writing withdraw from training at any time. Any unused tuition funds will be refunded according to the HIWT guidelines.

A student who starts a course and officially withdraws before the course is thirty percent complete will receive an incomplete for the course. A student who starts a course and officially withdraws after the course is thirty percent complete will receive a grade of 0 (F) for the course.

A student is required to contact the Registrar for withdrawal procedures when dropping a course or to withdraw from the school. The effective date of any withdrawal is the last date of attendance or the date of determination, whichever applies to the situation.

COURSE GRADE RECORDS/CERTIFICATES
Students receive a grade record for each course in which they participate. Each course grade is based on skill, knowledge and attitude.

Students successfully completing skill training will receive a certificate of completion.

ATTENDANCE POLICY
All attendance and absences are recorded. Our attendance policy is being driven by industry and is expected by industry for the future employment of our students. Based on the Hobart Institute of Welding Technology and government agency standards, the objective is to have attendance and conduct at a level that will in no way cause an interruption in training. This will ensure the highest level of welding skill at the completion of training. It is the responsibility of all students to follow Institute guidelines and rules.

Students are required to be on time for each class; to participate in each class and laboratory session; to honor break times; and to remain at the Institute through the completion of the daily scheduled program. Students are required to be in their assigned area. Students loitering in other areas may be counted absent for the time spent away from their area. Notify your instructor if you need to be away from the area.

You are expected to notify your instructor when you can't report at your scheduled time regardless of the reason. The only exception will be when an extreme emergency exists not permitting you to call. The number is 937-332-9500.

Absences include personal illness, illness in the family, death in the family and legal matters (including incarceration), etc. You are expected to be in attendance for all classes.

Understand that absences, being tardy, leaving early, or cutting classes will be causes for interruptions, rescheduling classes, or dismissal.

All absences are recorded in 15 minute increments. Once you have missed more than 10% of a course, you will not be permitted to finish the hours in that course. You will need to reschedule and repeat the entire course at individual course tuition rate.

Absence policy requiring you to reschedule is:
2-week course - if the absence exceeds 7 hrs, the student must reschedule the class
4-week course - if the absence exceeds 14 hrs, the student must reschedule the class.

If a student, at any time during their enrollment is absent for three consecutive days without notifying the Institute, based on a staff evaluation the student will be dismissed.

HOLIDAY SCHEDULE
Hobart Institute of Welding Technology observed holidays that fall during a course will be made up during the course. If a holiday falls within a course, the instructor will inform the students on the first day of the course which days the make-up hours will be offered.

Days that Hobart Institute will be closed for students in 2021:

New Year’s 01/01/21 1 day
Memorial Day *05/31/21 1 day
Labor Day *09/06/21 1 day
Thanksgiving Break 11/22/21 – 11/26/21 5 days
Christmas Break 12/20/21– 12/31/21 10 days

* Monday Holiday - class will begin on Tuesday.

MAKE-UP POLICY
Students may not miss more than 10% of the total clock hours of any course.

In the event of the school closing for any reason, (i.e. holidays, weather, power outage, etc.) students must be given the opportunity to make up those scheduled hours.

Make-up hours for day shift will be before class from 7 a.m. to 8 a.m. Make-up hours for evening shift will be during the two fifteen minute breaks and after class from 11:30 p.m. until 12 a.m.

If a student opts to not make-up the hours missed for a school closure that occurred within their scheduled course, the hours missed will be counted as an absence.

RULES AND REGULATIONS
All rules and regulations at the Institute are subject to review by the President or the Director of Skill Education based on conditions and circumstances.
**DISCIPLINARY ACTION PROCEDURES**

Hobart Institute of Welding Technology (HIWT) reserves the right to place on probation, suspend or dismiss any student based on unsatisfactory performance, absence, or failure to comply with published policies and/or the Student Code of Conduct. All students will receive a Student Orientation Manual that states the policies and the Student Code of Conduct at orientation.

To maintain discipline the staff at HIWT will conduct the Institute in the best interest of each student.

The following action will be taken if policies and/or the Student Code of Conduct are violated:

First Violation – Verbal Discussion: A first violation will result in a discussion with the Instructor regarding the violation that occurred to assist with any possible misunderstanding, to review the rules and to identify the consequences if there is any further violations. Demerits will be recorded on the grade sheet, and the conversation will be recorded in the notes section of the grade sheet.

Second Violation – Probation: A second violation will result in probation and written record of the violation. Student will meet with two HIWT Administrative personnel to discuss the severity of the second violation. The probation will remain in effect until the student completes the program and the written record will become a permanent part of the student’s file.

Third Violation – Suspension: A third violation will result in a one-month suspension from the program. Based on course availability the student may not be able to resume the program until the course is offered which may be more than one month. If suspension occurs during a class, all remaining class time and certification attempts will be forfeited. A student returning from suspension will be financially responsible for the course at the individual course tuition rate.

Any additional infraction following the return from suspension will result in immediate dismissal from the program.

All students are expected to conduct themselves in a manner appropriate to a professional work environment. Considering the severity of the violation, immediate dismissal of the student may be necessary.

**COPYRIGHT AND PEER-TO-PEER SHARING POLICY**

In compliance with the Higher Education Opportunity Act, HIWT has implemented policies to deter copyright violations and unauthorized Peer-to-Peer (P2P) file sharing. This policy includes sanctions and disciplinary actions for violation of Federal copyright laws and P2P file-sharing violations. Each student receives a complete copy of this policy during orientation.

**PROBATION/SUSPENSION/DISMISSAL**

The Institute reserves the right to place on probation, suspend, or dismiss any student based on unsatisfactory performance, absence, or failure to comply with published rules. Any student involved in a fight or expressing violence is subject to immediate dismissal.

**Note:** Any student with an open container of alcohol, drugs or weapons on Institute grounds or appears to be under the influence of drugs or alcohol is subject to immediate dismissal. The use, sale, or possession of drugs or firearms will result in immediate dismissal and notification of the proper authorities. HIWT has a no firearms policy; no person shall possess, have under their possession or control, convey or attempt to convey, a deadly weapon or dangerous ordnance onto HIWT premises.

**READMISSION**

A student who voluntarily withdraws may be readmitted by submitting a new Individual Skill Training Enrollment Agreement. A student who has been dismissed by the Institute may request readmission in writing, after a 6 month period of time. Readmission may be granted at the discretion of the Institute based upon a review of individual circumstances.

**BOOTH RENTAL**

Any student who has successfully completed a course may return and rent booth space to practice their skills in the area of study. Students are required to provide their own Personal Protective Equipment. Standard welding materials are provided. The charge for this service is $30.00 per hour, minimum of 3 hours, paid in advance with no refunds. Contact the Institute to pre-schedule your time.

**Note:** Booth rental does not include any instructor time; it is for practice only.

**STUDENT COMPLAINT/GRIEVANCE PROCEDURES**

In the event a student has concerns or complaints against the Institute, the steps for filing the complaint and resolving the problem would be as follows:

1. Discuss the matter with his/her class Instructor
2. Discuss with the Advisor/Safety & Security Representative and Compliance & Student Services Manager
3. Discuss with the Director of Skill Education
4. Should it become necessary, the individual may contact:

   Executive Director at the Ohio State Board
   of Career Colleges and Schools
   30 East Broad Street, 24th Floor, Suite 2481
   Columbus, Ohio 43215
   Phone (877) 275-4219
**HOUSING AND MEALS**

HIWT does not have on campus housing. Securing housing is the responsibility of the student. We provide a list of hotels and motels options available to the students of Hobart Institute of Welding Technology. HIWT does not endorse any of the listings and is not responsible for any related issues.

Day shift students will have an hour for lunch from 11:30 a.m. to 12:30 p.m. Evening shift students will have a half-hour for lunch from 7:30 p.m. to 8:00 p.m.

The Institute does not have food service, but we do offer a small market for food and beverages. Students may bring their own food or there are several restaurants near the Institute.

**CAMPUS SECURITY POLICIES AND PROCEDURES**

The following information is provided and updated annually as directed by the U.S. Department of Education.

**Reporting of Criminal Incidences.** The Institute strives to provide a safe and secure environment for all students and staff members. All students and staff members are encouraged to report any and all suspicious campus activity immediately upon witnessing the occurrence.

All students should report any knowledge of a criminal or suspicious nature to their Instructor. The Institute will take appropriate action based upon the information given by the student or staff member. When deemed appropriate, local law enforcement authorities will also be notified.

**Security Program.** All students are informed of security procedures during orientation. All staff members are briefed on security procedures upon hiring. Both staff members and students are encouraged to be responsible for their own security and the security of those around them by carefully reading the security procedures and reporting any incidents when they occur to a safety/security team member.

**Policy Regarding Illegal Substances.** The Institute strictly forbids the possession, use or sale of any alcoholic beverages and/or any drugs on all Institute property. Students and staff members should report any knowledge of such activities to the appropriate school personnel mentioned above in the “Reporting of Criminal Incidence”.

Any infraction is cause for immediate suspension and possible dismissal. When appropriate, such infraction will also be reported to the local authorities. Specific details of the Institute's drug policy are outlined on page 27 of this catalog, reviewed during Student Orientation and posted throughout campus.

**Domestic Violence Policy.** Reports regarding domestic violence should be directed to the Troy Police Department.

**Missing Person Policy.** Reports regarding a student who is believed to be missing should be directed to the Troy Police Department.

**Current Crime Statistics.** A list of all criminal incidences reported during the prior three-year period can be viewed on the U.S. Department of Education website at: https://ope.ed.gov/campussafety/#/. Paper copies of this report can be downloaded from our website at www.welding.org or obtained from the office.

**HEALTH AWARENESS**

Individuals with a pacemaker or defibrillator are restricted from entering the welding labs and other high voltage areas due to potential risk of electric shock and/or high frequency interfering with the pacemaker or defibrillator signal.

Students are responsible for their own medical care and insurance expenses. Students are not covered by Hobart Institute of Welding Technology insurance or industrial compensation.

Vaccinations are not required as a condition of enrollment at Hobart Institute of Welding Technology. However, we encourage all students to be vaccinated.

**ACADEMIC ADJUSTMENTS**

Academic Adjustments are modifications in how students participate in classes or activities. These modifications allow students to meet standards of the program, but do not change them. Academic Adjustments give students equal access to educational opportunities. For example: A student who requests an academic adjustment and provides the proper documentation may be allotted additional time in completing written tests and assignments.

If needed, students are encouraged to request an Academic Adjustment prior to the start of their program to allow sufficient time for an evaluation to be completed to eliminate or minimize a possible disruption in their scheduled start date. The following is a breakdown of the procedure that is necessary to make an informed decision on request.

1. Student notifies the Registrar that they are requesting an Academic Adjustment.
2. Student provides diagnosis from a physician describing how the disability affects the student and what limitations it causes.
3. Student provides a recommendation from a physician describing what adjustment(s) could be made to aid the student in completing the program.
4. The Compliance & Student Services Manager will access the information and compare to our HIWT safety guidelines.
5. HIWT will notify the student in writing with a decision or request additional information about the proposed Academic Adjustment.
6. If an Academic Adjustment is granted, it will be documented and acknowledged by student and HIWT prior to the start of class.
INDIVIDUAL COURSES

7. If an Academic Adjustment is granted, the Compliance & Student Services Manager will inform the necessary HIWT staff of the adjustment and work with the staff to implement the adjustment. Confidentiality will be maintained at all times.

Safety is a top priority at HIWT so careful consideration is necessary for our students and staff. Any adjustment that would create an unsafe environment will not be permitted. The cost of obtaining a diagnosis and recommendation from a physician is the student’s responsibility.

TOBACCO-FREE POLICY

HIWT is committed to providing a safe and healthy environment for all students and visitors at our campus.

Ohio Issue 5 was passed on November 6, 2006, creating Ohio’s indoor smoking ban under a chapter of the Ohio Revised Code (ORC) effective December 7, 2006. This law required “public places” and “places of employment” to prohibit smoking as of that date.

In compliance with this law, smoking and tobacco use of any kind (including smokeless products) is prohibited inside HIWT or within 25 feet of its facilities. A designated outdoor smoking area is located on the East side of the Main Campus Building.

DRUG AND ALCOHOL FREE CAMPUS

Hobart Institute of Welding Technology promotes the health, safety and effectiveness of our students. In doing so, we expect students to report to school mentally and physically prepared to learn. This requires students to abstain from using substances that could alter their performance prior to or during scheduled classes.

In addition, students will not distribute, sell, manufacture, purchase, possess or use alcohol or unauthorized controlled substance on school premises. Controlled substances include, but are not limited to narcotics, depressants, amphetamines, hallucinogens and marijuana.

A violation may result in disciplinary action up to and including dismissal. Local law enforcement will be immediately notified for any incident involving a student under the age of 21 or pertaining to the involvement of controlled substance.

HIWT actively promotes a drug and alcohol free campus and encourages frequent visits from local law enforcement to the campus. Law enforcement with K9’s will routinely visit the campus unannounced to detect the presence of illegal drugs. Please notify your instructor or shift supervisor if you are aware of any drug or alcohol use. Students are encouraged to seek assistance to resolve substance abuse problems before it effects your learning environment.

PERSONAL PROTECTIVE EQUIPMENT

The Personal Protective Equipment (PPE) Program is an OSHA requirement. PPE is equipment worn to minimize exposure to hazards that can cause injuries and illness. All students, visitors, and personnel are required to wear the appropriate PPE when in the welding lab and grinding areas.

The following is required for all welding and grinding areas:

• Safety Glasses with side shields – If you wear prescription eye glasses, they must have side shields. You may also wear safety goggles or protective glasses over your prescription glasses.
• Welding Jacket, cape and bib, or long sleeve shirt with Flame Retardant (FR) Logo – No t-shirts or other untreated cotton clothing will be permitted without a full layer of flame retardant protection.
• Gloves are required at all times when welding and handling base metal. Gloves that are torn, wet or saturated with oil must be replaced.
• Welding Helmet with appropriate lens shade.
• Cutting Goggles or Cutting Glasses with shade 5 lens. A shade 5 lens is required for all thermal welding and cutting operations used in the labs.
• Hair must be kept above shoulders to prevent any potential hazards when grinding and welding.
Additional requirements for right angle grinders usage:

- All hand held grinders must have guards in place and handles on them during operation.
- Grinding wheels must be between 3/32” and 1/4” in thickness.
- No wire wheels or cut-off wheels will be permitted.
- Ear plugs are required when operating a handheld grinder.
- Face shield must be worn over top of safety glasses.

**FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT**

The Family Educational Rights & Privacy Act (FERPA) is a Federal law that protects the privacy of student education records by providing students access to their educational records, an opportunity to seek to have the records amended and some control over the disclosure of information from the records. The law applies to all schools that receive funds under an applicable program of the U.S. Department of Education.

When a student turns 18 years old or enters a postsecondary institution at any age, all rights afforded to parents under FERPA transfer to the student. However, FERPA also provides ways in which schools may share information with parents without the student’s consent. For example:

- Schools may disclose education records to parents if the student is a dependent as defined by the IRS Code.
- Schools may disclose education records to parents if a health or safety emergency involves their son or daughter.
- Schools may inform parents if the student who is under age 21 has violated any law or its policy concerning the use or possession of alcohol or a controlled substance.
- A school official may generally share with a parent information that is based on that official’s personal knowledge or observation of the student.

HIWT’s Student Services Office will only give grades, attendance, and financial aid information to people that the student authorizes. Students can designate and authorize specific individuals in the My Profile/My FERPA area of their Student Portal.

For further information on FERPA you may contact:

Family Policy Compliance Office
U.S. Department of Education
400 Maryland Avenue, SW
Washington, D.C. 20202-8520

**TRADE ADJUSTMENT ACT, WORKFORCE INNOVATION OPPORTUNITY ACT**

These funds are available for dislocated workers who are eligible. Contact your local Unemployment Office for more information.

**VETERANS**

Hobart Institute of Welding Technology is approved by the Ohio State Approving Agency for Veterans Training (the G.I. Bill® educational training for non-disabled or vocational rehabilitation for disabled veterans). Contact the Hobart Institute Financial Aid Office at 937-332-9500 ext 9604 or e-mail financialaid@welding.org.

“In accordance of Veterans Benefits and Transition Act of 2018, Section 103 Hobart Institute of Welding Technology will not impose any penalty, including the assessment of late fees, the denial of access to classes, libraries or other institutional facilities, or require that a Chapter 31 or Chapter 33 recipient borrow additional funds to cover the individual’s inability to meet his or her financial obligations to the institution due to the delayed disbursement of a payment by the U.S. Department of Veterans Affairs. This policy is limited to tuition funds paid by the US Department of Veterans Affairs.”

GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official U.S. government website at http://www.benefits.va.gov/gibill

Hobart Institute of Welding Technology was voted Military Friendly for 2018.

**BUREAU OF VOCATIONAL REHABILITATION**

Bureau of Vocational Rehabilitation (BVR) is also called the Division of Vocational Rehabilitation (DVR). The Institute operates under contracts with most states.
CONTINUING EDUCATION

Technical training at Hobart Institute of Welding Technology is designed to provide training for personnel involved with welding support groups. Those who need a practical working knowledge of welding - such as engineering, quality control and management personnel - will find these one and two week courses very beneficial. The courses are comprised of approximately 80% classroom lecture/discussion and 20% laboratory demonstration. These classes are not designed to teach the participants to weld. Courses are available to provide either a generalized background - or to target specific areas related to welding. No audio or audio-visual recording of classes will be permitted. Class begins at 8:00 a.m. Some technical courses have five or more hours of assigned homework.

DRESS CODE POLICY

Due to HIWT technical classes being primarily composed of classroom lecture with the possibility of some scheduled lab time, HIWT Technical students are encouraged to wear clean, neat clothing that is appropriate for a classroom learning environment and matches the scope of work they will be performing. HIWT prohibits any attire which is disruptive to the educational process, learning environment, or school activities.

Clothing that is permitted for a classroom learning environment include:

- Shorts
- Jeans
- Sweat pants
- Dresses
- Closed toed shoes

HIWT prohibits clothing which is sexually suggestive, provocative, revealing, or that contains suggestive or provocative messages. Examples include but not limited to:

- Bare midriff tops
- Halter tops, off-the-shoulder tops or spaghetti strap tops that show cleavage
- Short shorts or low-cut pants that are revealing or show under garments
- Swim wear or tube tops

Students are encouraged to be tolerant of others and to develop healthy lifestyles. Clothing that carries a message of intolerance, obscenity, or that is demeaning, can lead to conflict, and/or is disruptive to the learning environment is not acceptable.

- HIWT prohibits any attire that displays words or symbols that degrade gender, sexual orientation, culture, religion, or ethnicity

VI400
FUNDAMENTALS OF VISUAL INSPECTION
2 DAYS 14 CLOCK HOURS 1.4 CEU
TUITION $600.00

This course concentrates on the single most used method of welding inspection - what we can see with the eye. Anyone involved with arc welding inspection, quality control, engineering or supervision should know the fundamentals of what to observe, "prior to", "during" and "after" welding. During this course you will spend time in the classroom and then in a “hands-on” lab session for actual practice.

Course content:

- Description and functions of common weld gages
- Temperature indicators
- Visual Inspection prior to welding
- Visual Inspection during welding
- Visual Inspection after welding
- Equipment required
• Terminology of weld defects
• General requirements for workmanship standards
• Making repair welds
• Visual inspection checklist
• Welding codes, procedures and procedure qualification

NW515

WELDING FOR THE NON-WELDER

4 DAYS  28 CLOCK HOURS  2.8 CEU
TUITION $820.00

This course gives the non-welder a solid background and overview of the welding field along with hands-on welding experience in the major welding processes. Purchasing agents, plant managers, manufacturers of welding products, distributor sales personnel, supervisors, quality assurance people, technical writers and others will gain an understanding of welding that will make you more proficient at your job that involves welding related activities.

All personal protective equipment is provided for student use. A complimentary welder cap will be provided for the student to keep.

Course content:
• Safety in welding and cutting
• Welding fundamentals and communication of welding information
• Weld metal properties
• Discussion and demo
• Plasma arc cutting
• Discussion and lab
• Oxyfuel cutting
• Shielded metal arc welding
• Gas metal arc welding
• Flux cored arc welding
• Gas tungsten arc welding

AWI520

ARC WELDING INSPECTION

1 WEEK  40 CLOCK HOURS  4.0 CEU
TUITION $875.00

Welding inspection personnel must have a solid background in welding defect analysis and weldment testing. This course can help provide that background. Upon completion of this course, the student should be able to assist in implementing the inspection technique or techniques that will best suit the company’s needs. This course has at least five hours of assigned homework.

Course content:
• Introduction to liquid penetrant testing
• Liquid penetrant processing
• Liquid penetrant testing methods and equipment
• Selection of liquid penetrant testing method
• Interpretation and evaluation of indications
• Liquid penetrant process control
• Test procedures and standards
• Safety, health, and disposal
• Principles of magnetic particle testing
• Effects of discontinuities on materials
• Magnetization
• Principles of demagnetization
• Equipment
• Types of discontinuities
• Flux fields
• Magnetic particles / methods of application
• Magnetization by means of electric current
• Evaluation techniques and quality control

LP800

LIQUID PENETRANT & MAGNETIC PARTICLE INSPECTION

1 WEEK  40 CLOCK HOURS  4.0 CEU
TUITION $850.00

Magnetic particle and liquid penetrant inspection are the most widely used processes for nondestructive testing. This course provides the student with training in theory and hands-on laboratory projects. You will attend class in our all-in-one interactive classroom/laboratory setting. The course will conclude with a written exam. Successful completion of this exam will prepare the student for Level II SNT-TC-1A in Liquid Penetrant and Magnetic Particle Testing. Note: Students may bring their own materials for test samples. This course has at least five hours of assigned homework.

Course content:
• Introduction to liquid penetrant testing
• Liquid penetrant processing
• Liquid penetrant testing methods and equipment
• Selection of liquid penetrant testing method
• Interpretation and evaluation of indications
• Liquid penetrant process control
• Test procedures and standards
• Safety, health, and disposal
• Principles of magnetic particle testing
• Effects of discontinuities on materials
• Magnetization
• Principles of demagnetization
• Equipment
• Types of discontinuities
• Flux fields
• Magnetic particles / methods of application
• Magnetization by means of electric current
• Evaluation techniques and quality control
CWS550
PREPARATION FOR AWS®-CWS®
CERTIFIED WELDING SUPERVISOR
EXAMINATION COURSE
4 DAYS  32 CLOCK HOURS  3.2 CEU
TUITION $950.00

This course is designed for welding supervisors, engineers, purchasing personnel, foremen, line leaders, designers and detailers, corporate welding instructors, lead welders, and personnel involved in bidding and quoting work. The American Welding Society has designated that applicants must be high school graduates or hold a state or military approved high school equivalency diploma; verify three years of practical welding experience in a fabrication, construction or welding-related industry (direct relationship with weldments fabricated to code, specification, or standard) and be directly involved in design, production, construction, inspection, or repair. Three years of relevant documented teaching experience may be substituted for one year of practical experience. This course has at least four hours of assigned homework.

Course content:
• Welding fundamentals and processes
• Safety
• Codes
• Weld Symbols
• Welding inspection and documentation
• Personnel management and supervision
• Qualification of personnel
• Quality management and quality control
• Procedure management and testing
• Equipment and consumables
• Equipment and consumables
• Materials and prefabrication
• Examination

AWS® requires an additional application fee which is part of their online application process.

It is the responsibility of the participant to apply and receive confirmation of schedule by the Certification Department of the American Welding Society. AWS® requires a minimum of eight (8) weeks to process the applications for the test.

Hobart Institute of Welding Technology will supply the books and materials necessary for the course.

The CWS® exam are only given at Prometric test centers using computer based testing. There are Prometric test centers located all over the United States. Visit the Prometric website to locate a test center and get familiarized with their computer based testing at www.prometric.com.

CWI540
PREPARATION FOR AWS®(CWI®)
CERTIFIED WELDING INSPECTOR EXAMINATION COURSE
2 WEEKS  80 CLOCK HOURS  8.0 CEU
TUITION $1700.00

The certification for the American Welding Society Welding Inspector become increasingly important today. Companies and educational institutions are requiring certification of their inspectors to fulfill employment qualifications. This two-week course is designed to enable students to be prepared to take the exam. Throughout the course you will be using the same tools that are used in the test kits for the hands-on portion of the exam.

Course content:
• Introduction
• Duties of a welding inspector
• Welding fundamentals and communicating welding information
• Mathematics for welding inspectors
• Introduction to destructive testing
• Welding inspection equipment lab
• Welding procedures and procedures qualification
• Welding codes (AWS® D1.1 or API 1104 only)
• Welding symbols
• Shielded metal arc welding
• Oxyacetylene welding, brazing and cutting
• Gas tungsten arc welding and plasma arc welding
• Electroslag welding
• Gas metal arc welding
• Stud arc welding
• Welding safety
• Welding discontinuities/defects
• Introduction to welding metallurgy
• Visual inspection discussion with lab
• Liquid penetrant testing
• Eddy current testing
• Ultrasonic testing
• Radiographic testing
• Inspection tools and gauges
• Review: Part B Book of Specifications
• Course review
• Exam

The Certified Welding Inspector Examination Part B Exam will be given on the tenth day of the course to accepted applicants. The test will be given in Troy, Ohio to only those people authorized by AWS®. Part A and Part C of the Exam are only given at Prometric test centers using computer based testing. There are Prometric test centers located all over the United States. Visit the Prometric website to locate a test center and get familiarized with their computer based testing.
AWS® requires an additional application fee which is part of their online application process.

It is the responsibility of the participant to apply and receive confirmation of schedule by the Certification Department of the American Welding Society.

AWS® requires a minimum of eight (8) weeks to process the applications for the test. At Hobart Institute of Welding Technology, the examination will start at 7:30 a.m. Check in begins at 7:00 a.m.

NOTE: This course has at least ten hours of assigned homework.

IMPORTANT - The participant is responsible for bringing to the course the code book for the open book test that he/she specified on the AWS® application form, the QC1 Standard, along with a noiseless calculator. Hobart Institute of Welding Technology provides instruction for the AWS® D.1. and API 1104 codes only.

RCW545
PREPARATION FOR RECERTIFICATION OF CWI®
1 WEEK  40 CLOCK HOURS   4.0 CEU
TUITION $850.00

This course has been updated and revised with new color enhanced graphics. It is designed for the inspector who is required to recertify by taking the American Welding Society - Part B — Practical Application Examination. The topics covered will include a review of the Book of Specifications Part B, use of the inspection kits and nondestructive testing topics. This course also covers inspection of welded samples as well as sample exam questions. The exam on Part B will be given on the last day of the course. This course has at least five hours of assigned homework.

Course content:
- Introduction
- Identification and use of the inspection kits
- Review of the Book of Specifications Part B
- Filler metal classification and specifications
- Base metal classifications and specifications
- NDT methods and their applications
- Welding discontinuities and defects
- Inspection of welded samples using the inspection kits
- Sample exam using inspection kits, welded samples and book of specifications
- Exam (Exam fee not included in tuition.)

AWS® requires an additional application fee which is part of their online application process.

CWI540-C
PREPARATION FOR AWS® CWI® CODE ENDORSEMENT
2 DAYS  16 CLOCK HOURS   1.6 CEU
TUITION $500.00

This two-day course covers AWS® D1.1 or API 1104

Anyone preparing to take an American Welding Society CWI® Code Endorsement Examination or a code re-examination, or anyone wishing to obtain more knowledge about the codes, may take this course. Learn or refresh your memory on how to find and interpret code information and practice taking a written test. Hobart Institute of Welding Technology provides instruction for AWS® D1.1 and API 1104 codes only. This course has at least two hours of assigned homework.

Participants must furnish their own codebook or purchase one at Hobart Institute of Welding Technology bookstore. Anyone taking the American Welding Society CWI® Endorsement Examination or CWI® Code Re-examination must schedule their exam through the American Welding Society.

AWS® requires an additional application fee which is part of their online application process.
CWI541
CWI® SUPPLEMENTAL PROCESSES AND METHODS
4 CLOCK HOURS 0.4 CEU
TUITION $300.00

This course is designed for CWI® Exam Preparation Course students who desire to increase their knowledge of welding processes and testing methods through demonstrations and reinforced lecture. Sessions will be approximately two hours running each Wednesday of the CWI® Exam Preparation Course, beginning right after the daily scheduled class.

Topics covered will include: SMAW, GMAW, GTAW, FCAW, OAW, Penetrant Testing, Magnetic Particle Testing, Radiography Testing (live demonstrations will not be conducted due to safety considerations), Bend Testing and Tensile Testing.

MET101
FUNDAMENTALS OF METALLURGY
3 DAYS 21 CLOCK HOURS 2.1 CEU
TUITION $720.00

This course will provide the non-metallurgist with basic and fundamental knowledge of various metals and their ability to be welded. Anyone involved with welding will benefit from the better understanding of welding different metals. Students will learn metal properties, heat input, preheating, post weld heat treatments, selecting filler metals, plus much more.

Course content:
• Introduction
• Properties of Steel
• Carbon Steel
• Stainless Steel
• Aluminum
• Classification of Ferrous Metals
• Heat Treatments
• Induction Heating
• Destructive Testing
• Tool Steels
• Cast Iron
• Hardening Surfacing
• Nickel Based Alloys
• Copper
## 2021 TECHNICAL TRAINING SCHEDULE

### VI400
**FUNDAMENTALS OF VISUAL INSPECTION**
- 2 days, 14 clock hours
- Tuition $600.00

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### LP800
**LIQUID PENETRANT & MAGNETIC PARTICLE INSPECTION**
- 1 week, 40 clock hours
- Tuition $850.00

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### NW515
**WELDING FOR THE NON-WELDER**
- 4 days, 28 clock hours
- Tuition $820.00

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### AWI520
**ARC WELDING INSPECTION**
- 1 week, 40 clock hours
- Tuition $875.00

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### CWS550
**PREPARATION FOR AWS® CERTIFIED WELDING SUPERVISOR (CWS) EXAMINATION**
- 4 days, 32 clock hours
- Tuition $950.00

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### CWI540-C
**PREPARATION FOR AWS® CWI® CODE ENDORSEMENT**
- 2 days, 16 clock hours
- Tuition $500.00

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### RCW545
**PREPARATION FOR RECERTIFICATION OF AWS® CWI®**
- 1 week, 40 clock hours
- Tuition $850.00

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### CWI541
**CWI® SUPPLEMENTAL PROCESSES AND METHODS**
- Tuition $300.00

**This course will be held on the first and second Wednesday of each CWI Course. Approximately 4:00pm - 6:00pm**

### MET101
**FUNDAMENTALS OF METALLURGY**
- 3 days, 21 clock hours

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Courses are regularly scheduled 8:00 a.m. to 4:00 p.m., Monday through Friday. You should report at 8:00 a.m. on the starting date. Please refer to your confirmation for exact starting time.

*Monday holidays - Class begins on Tuesday*
## Terms and Conditions

These general terms and conditions shall apply to all Hobart Institute of Welding Technology in-plant technical training services, unless waived in writing by Hobart Institute of Welding Technology:

1. Tuition and book fees are listed above. The per-person charge is based on the person attending the course. (Note: Prices are subject to change without notice.)

2. **ANY TIME LESS THAN ONE DAY WILL BE CHARGED AS A FULL DAY.**

3. It is understood that Institute personnel shall be considered as working during the regular 8 hour period, regardless of lost time or interruptions due to conditions beyond Hobart Institute of Welding Technology control - such as power failure, lock-in/lockout, lack of material, or other such interruptions.

4. The standard five (5) day work week for Hobart Institute of Welding Technology includes the travel time to and from Troy, Ohio. Hobart Institute of Welding Technology representative would follow the most efficient travel schedule to arrive at the assignment as early as possible. This representative would leave the assignment at the latest time to arrive home Friday p.m.

5. Travel time (including to and from airport) exceeding 8-hour workday (including Saturday and Sunday) is at a rate of $60.00 / hour.

6. Transportation / Airfare and other costs during the entire trip (rental car, personal car mileage at the IRS reimbursement rate, gasoline, parking, and toll charges) are billable at actual cost rate.

7. Subsistence including lodging, meals, tips, miscellaneous: Institute policy is that receipts are not required for charges under $25.00. Invoicing will be made according to Hobart Institute of Welding Technology policy and billable at actual cost rate.

8. The above applies to the continental United States only. For information regarding fees outside the continental United States, please contact Hobart Institute of Welding Technology.

9. A minimum of ten (10) persons per class are required for in-plant technical training.

10. **DVD training programs can be used to supplement Hobart Institute of Welding Technology instructor’s efforts at your facilities. These may also be purchased to enable you to continue training your people. PowerPoint® presentations are not available for sale and are the intellectual property of Hobart Institute of Welding Technology. No copying, photography or recording of presentations is allowed.**

11. **Terms of payment. Payments are due within 30 days of invoice date. A service charge of 1 1/2 % per month will be assessed after that date.**

12. Cancellation: A 10% cancellation fee will be charged if cancellation is made within five (5) days of the scheduled training.

13. Recording: NO AUDIO OR VISUAL RECORDING OF CLASSES WILL BE PERMITTED

14. Adequate classroom space and audio visual equipment will be the responsibility of your company.

15. Purchase orders must be received prior to any travel arrangements being made by Hobart Institute of Welding Technology. Consult Hobart Institute of Welding Technology for an official quotation.
SPECIALIZED AND IN-PLANT WELDING TRAINING

Hobart Institute of Welding Technology offers you both in-plant and specialized training to make your welding more productive and profitable.

Hobart Institute of Welding Technology has trained over 100,000 students and has been closely associated with the welding industry since 1930. This experience has convinced us that the most productive welding training is aimed at solving specific industry needs. Hobart Institute of Welding Technology In-plant (field) Training and Specialized Training programs - using advanced skill and technical training that incorporates the latest state-of-the-art technology - are designed to meet these needs.

IN-PLANT OR FIELD TRAINING PROGRAMS involve the teaching of existing advanced skill and/or technical training courses at your location by our experienced instructors, and may run from 5 days up to as long as a year or more in length -- whatever it takes to meet your requirements.

SPECIALIZED TRAINING PROGRAMS involve the designing of tailored courses to meet the specific objectives of your company - and are taught to your employees at Hobart Institute of Welding Technology. These programs can run 5 days - or up to 6 weeks or more in length as required.

Since Field and Specialized Training programs are based on specific needs and problems, they vary considerably from one company to another. For example, the cost of downtime in utility companies is unbelievably expensive - therefore, specialized maintenance welding techniques must be emphasized. However, in a more typical industrial situation, the biggest need may be the avoidance of rework. Whatever your specific welding needs and problems may be, we can help you.

Phone Corporate Services today at 937-332-9500 ext 9502
See page 37 for Specialized Training rates and Page 38 for In-Plant Training rates.

SPECIALIZED OR IN-PLANT WELDING TRAINING

for TOOL & DIE WELDING, structural and piping, designed to meet manufacturing needs

Questions often arise concerning the welding of tool steel and the importance of proper welding sequence and procedures. In response to those concerns, Hobart Institute of Welding Technology works with corporate customers and manufacturers by tailoring training to meet specific needs. The Tool and Die Welding Course may be customized and will cover major areas including:

- Surface preparation of the weld
- Pretreatment and preheating of the metal
- Weld bead sequencing
- Techniques & recommended tools for measuring heat input
- Cooling rate quenching or indirect cooling
- Post heating or tempering the weld deposit

The duration of the course is flexible and based on the welder’s existing knowledge and skill. Hobart Institute of Welding Technology can make an assessment, identify your training needs and make a recommendation as to how many days of training an individual may need to become a better tool and die welder. The course can take place either in your facility or at our institute.

See page 37 for Specialized Training rates and Page 38 for In-Plant Training rates.

SPECIALIZED OR IN-PLANT WELDING TRAINING AND CERTIFICATION

for AEROSPACE structural and piping applications

Hobart Institute of Welding Technology has been working closely with the aerospace industry to customize training modules for the classroom to meet the specific needs including purging techniques, heat input, and basic metallurgy of the “Super Alloys” used in this industry. Drawing on many years of experience, Hobart Institute of Welding Technology conducts hands-on, specialized welding and brazing training for sheet and tubing using steel or aluminum alloys, stainless steels, nickel-based alloys, cobalt and titanium. The duration of the training is
flexible and based on existing knowledge and skill. We can make an assessment, identify training needs and make a recommendation as to how many days of training an individual may need to become a good aircraft-maintenance welder. The course can take place either in your facility or at our institute.

Hobart Institute of Welding Technology also conducts welder certifications to your company specifications, AWS® QCWI or the AWS® D17.1 Specification for Fusion Welding for Aerospace Applications. We maintain all hard copy test records backed up by an electronic database. Hobart Institute of Welding Technology’s certified welding inspectors and ASNT Level III staff gives us the ability to perform the radiography and metallographic testing in our own laboratories with a very short turn around time.

See page 37 for Specialized Training rates and Page 38 for In-Plant Training rates.

SPE025
SPECIALIZED WELDING TRAINING
ALL MAJOR ARC WELDING PROCESSES COVERED

As an additional service for manufacturing, service industries, educational and governmental agencies, Hobart Institute of Welding Technology has the facilities to develop specialized training to meet specific needs and requirements. Specialized training involves the designing of special skill courses to meet specific objectives.

Examples of specialized welding courses developed for various industries include tool steel welding, sanitation piping for the food industry, pipe and tubing for chemical plants and window/mirror pipe welding for power plants.

One or more instructors will be assigned to the special class. This training is offered at Hobart Institute of Welding Technology, Troy, Ohio.

<table>
<thead>
<tr>
<th>RATES EFFECTIVE JANUARY 1, 2021</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>No. Students</td>
<td>Per day (7 hours)</td>
</tr>
<tr>
<td>1</td>
<td>$750.00</td>
</tr>
<tr>
<td>2</td>
<td>750.00</td>
</tr>
<tr>
<td>3</td>
<td>1,000.00</td>
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<tr>
<td>4</td>
<td>1,250.00</td>
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<tr>
<td>5</td>
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<tr>
<td>6</td>
<td>1,750.00</td>
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<tr>
<td>7</td>
<td>2,000.00</td>
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<tr>
<td>8</td>
<td>2,250.00</td>
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<tr>
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<tr>
<td>10</td>
<td>2,750.00</td>
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<tr>
<td>11</td>
<td>3,000.00</td>
</tr>
<tr>
<td>12</td>
<td>3,250.00</td>
</tr>
<tr>
<td>13 - 15</td>
<td>(add $275.00 per student)</td>
</tr>
</tbody>
</table>

For further information, please call: Corporate Services at 937-332-9500 ext 9502

IN-PLANT WELDING TRAINING AT YOUR FACILITY
ALL MAJOR ARC WELDING PROCESSES COVERED

Hobart Institute of Welding Technology maintains a staff of instructors, technicians and training experts who are available to teach welding skill and qualification/certification courses at any location in the United States or abroad.

Field training is available to all industrial firms, contractors, utility companies, as well as all educational and governmental agencies and organizations.

Please advise us as to your requirements. Our staff will be glad to help evaluate your training needs, determine possible solutions and implement the necessary training.

As much lead time as possible is requested to plan and schedule on-site field training.

For further information, please call: Corporate Services at 937-332-9500 ext 9502. See page 37 for in-plant Training rates.

A partial list of customers where field training has been conducted:
- Alcan Aluminum
- American Electric Power Co. Inc.
- Commonwealth Edison Co.
- Du Pont Co.
- Eli Lilly Co.
- Ford Motor Co.
- General Dynamics Corp.
- General Electric Co.
- General Motors Corp.
- New York Power Authority
- Textron-Lycoming
- U.S. Navy
- USX Corporation
# In-Plant Training Cost Factor at Your Facility

**Effective January 1, 2021**

For further information, please call: Corporate Services at 937-332-9500 ext 9502

### 1. Terms and Conditions

These general terms and conditions shall apply to all Hobart Institute of Welding Technology in-plant training services, unless waived in writing by the Institute.

### 2. Fees

**Note:** Prices are subject to change without notice.

<table>
<thead>
<tr>
<th>Hobart Institute of Welding Technology In-plant Training / Assessment of Welders and/or Witnessing Welder Certification Cost Factor</th>
<th>Field Training</th>
<th>Assessment of Welders and/or Witnessing Welder Certification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Straight Time:</strong></td>
<td>$625.00/day</td>
<td>$590.00/day</td>
</tr>
<tr>
<td>Regular 8-hour weekday, including work time and travel time</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Class Enrollment: 1 student. Each additional student over enrollment of 1</td>
<td>$150.00/day</td>
<td></td>
</tr>
<tr>
<td><strong>Overtime (Time and 1/2) Working</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A. Weekdays more than 8 hours (Up to 12 hours)</td>
<td>Upon request</td>
<td>Upon request</td>
</tr>
<tr>
<td>B. Saturdays up to 8 hours</td>
<td>Upon request</td>
<td>Upon request</td>
</tr>
<tr>
<td><strong>Double Time Working</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A. Weekdays more than 12 hours or B. Saturdays more than 8 hours, or C. Sundays and holidays</td>
<td>Upon request</td>
<td>Upon request</td>
</tr>
<tr>
<td><strong>Travel Time during an 8 hour work day (including to and from airport).</strong></td>
<td>Travel Time 8hr day $60.00/hr</td>
<td>$60.00/hour</td>
</tr>
<tr>
<td>Travel Time exceeding 8 hour workday or Saturdays and Sundays (including to and from airport).</td>
<td>Travel Time exceeding 8hr day or Sat./Sun. - $90.00/hr</td>
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</tr>
<tr>
<td><strong>Transportation / Airfare</strong></td>
<td>Actual costs</td>
<td>Actual costs</td>
</tr>
<tr>
<td>Other costs involved during entire trip: rental car, personal car mileage at the IRS reimbursement rate, gasoline, parking toll charges.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Subsistence: Lodging, meals, tips, miscellaneous. Institute policy is that receipts are not required for charges under $25.00. Invoicing will be made according to Hobart Institute policy.</strong></td>
<td>Actual costs</td>
<td>Actual costs</td>
</tr>
</tbody>
</table>

**Any Time Less Than One Day Will Be Charged As A Full Day.**

### NOTE

It is understood that Institute personnel shall be considered as working during the regular 8 hour period, regardless of lost time or interruptions due to conditions beyond their control - such as power failure, lock-in/lockout, lack of material, or other such interruptions.

The standard five (5) day work week for Hobart Institute of Welding Technology includes the travel time to and from Troy, Ohio. The Representative would follow the most efficient travel schedule to arrive at the assignment as early as possible. He would leave the assignment at the latest time to arrive home Friday p.m.

The above applies to the continental United States only. For information regarding fees outside the continental United States, please contact Hobart Institute of Welding Technology.

**Video training programs can be used to supplement our instructor’s efforts at your facilities.** DVD training programs can be used to supplement Hobart Institute of Welding Technology instructor’s efforts at your facilities. These may also be purchased to enable you to continue training your people. PowerPoint® presentations are not available for sale and are the intellectual property of Hobart Institute of Welding Technology. No copying, photography or recording of presentations is allowed.

### 3. Terms of Payment

Payments are due within 30 days of invoice date. A service charge of 1 1/2 % per month will be assessed after that date.

### 4. Cancellation

A 10% cancellation fee will be charged if cancellation is made within five (5) days of the scheduled training.

### 5. Recording

**NO AUDIO OR AUDIO-VISUAL RECORDING OF CLASSES WILL BE PERMITTED.**
WELDER CERTIFICATION AND QUALIFICATION

Hobart Institute of Welding Technology has been certifying/qualifying welders and welding procedures to structural, pressure piping, production, and aerospace specifications since 1989. Hobart Institute of Welding Technology has been accredited by the American Welding Society under QC4 to perform Qualification of Welders in accordance with AWS® QC-7 since 1990. Our staff has the expertise and experience to certify welders on all types of ferrous and nonferrous materials including Titanium, Cobalt, Inconel, and Aluminum. Our organization is staffed with AWS® Certified Welding Inspectors and SNT Level II Technicians that meet most, if not all, welding specification requirements. Our office maintains a complete and efficient computer database and filing system for easy and accurate access. For further information, contact the certification lab at 937-332-9500 ext 9502.

EFFECTIVE JANUARY 1, 2021

<table>
<thead>
<tr>
<th>PROCEDURE QUALIFICATIONS *</th>
<th>2 tensiles &amp; 4 bends required</th>
<th>2 tensiles &amp; 4 bends required &amp; Radiographs</th>
<th>fillet weld submitted</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASME Section IX Welding Qualification</td>
<td></td>
<td>$350.00</td>
<td>$430.00</td>
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<tr>
<td>AWS® B2.1 Standard for Welding Procedures</td>
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<td>prices on request</td>
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<tr>
<td>AWS® D1.2 Structural Welding (aluminum)</td>
<td>2 tensiles &amp; 4 bends required</td>
<td>$350.00</td>
<td></td>
</tr>
<tr>
<td>AWS® D1.1 Structural Welding (steel)</td>
<td>2 tensiles &amp; 4 bends required &amp; Radiographs</td>
<td>$430.00</td>
<td></td>
</tr>
<tr>
<td>AWS® D1.1, AWS® D1.2, and ASME IX</td>
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<tr>
<td>AWS® D17.1</td>
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<td>prices on request</td>
<td></td>
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<tr>
<td>Impact testing, Hardness &amp; Ferrite</td>
<td></td>
<td>prices on request</td>
<td></td>
</tr>
<tr>
<td>ASME Section IX Brazing Qualifications</td>
<td>tensiles &amp; sectioning</td>
<td>$350.00</td>
<td></td>
</tr>
<tr>
<td>Military standards and other specifications not listed</td>
<td></td>
<td>prices on request</td>
<td></td>
</tr>
<tr>
<td>On-Site Witnessing</td>
<td></td>
<td>$590 per day. See page 44 in catalog</td>
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</table>

<table>
<thead>
<tr>
<th>PROCEDURE QUALIFICATIONS</th>
<th>2 tensiles &amp; 4 bends required</th>
<th>(etch and/or break test) each sample submitted</th>
<th>Each sample submitted</th>
</tr>
</thead>
<tbody>
<tr>
<td>AWS®, ASME IX, and AWS® D17.1</td>
<td>(bend test) each sample submitted</td>
<td>$175.00</td>
<td></td>
</tr>
<tr>
<td>AWS®, ASME IX, and AWS® D17.1</td>
<td>Each Sample Submitted (radiograph)</td>
<td>$175.00</td>
<td></td>
</tr>
<tr>
<td>AWS® D17.1, AWS®, and ASME IX</td>
<td>(etch and/or break test) each sample submitted</td>
<td>$175.00</td>
<td></td>
</tr>
<tr>
<td>ASME Section IX Brazing Qualification</td>
<td>Each sample submitted</td>
<td>$175.00</td>
<td></td>
</tr>
<tr>
<td>Military and other specifications not listed</td>
<td></td>
<td>prices on request</td>
<td></td>
</tr>
<tr>
<td>AWS® QC-7 National Welder Certification</td>
<td></td>
<td>$375.00</td>
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</tr>
</tbody>
</table>

* Pricing is per specimen/per welding procedure submitted.
2 Includes all WPS, PQR & WQR documentation (if applicable).

The prices listed above are for samples sent to Hobart Institute of Welding Technology for testing.
AWS® QC7 - NATIONAL WELDER CERTIFICATION

The American Welding Society Certified Welder program is a performance-based program with no prerequisite certifications required. Hobart Institute of Welding Technology has been accredited by the American Welding Society under QC4 to perform Qualification of Welders in accordance with AWS® QC-7 since 1990. The AWS® Certified Welder Program was established to allow individual welders an opportunity to perform a welding skill test at an accredited testing facility and, after acceptable completion, placed on a national registry with the American Welding Society.

Your final certification provides nationally recognized credentials that you may take with you wherever you go.

To begin the process for welder certification, you should:

1. Contact Hobart Institute of Welding Technology and obtain and read a copy of the Standard AWS® QC-7 and applicable Supplement(s) that include fit-up, assembly, and positioning.
2. Decide which welding test you would like to perform, since we have many procedures already established for GMAW, GTAW, SMAW and FCAW - on both plate and pipe.
3. Schedule a Test Date with the Certification Lab.
4. You will receive your qualification card and supply of certification maintenance forms from the AWS® Certification Dept. in four to six weeks. You must submit your certification maintenance forms every six months for your certification to remain valid.

The purpose of this standard for the AWS® Certified Welder is:

1. To determine the ability of welders to deposit sound welds in accordance with the standardized requirements.
2. To impose sufficient controls on the documentation and maintenance of certification to allow transfer between employers without requalification, where allowed by standard or contract document.

For prices and to learn more about becoming an AWS® QC-7 Certified Welder, contact Hobart Institute of Welding Technology at 937-332-9500 ext 9502.

Other services offered by the Institute Certification Lab: Charpy impacts, Chemistry testing, Etch testing, Liquid penetrant, Hardness testing, Heat treatment. Please contact the Institute for pricing.

Procedure qualification pricing is based on materials up to 1” in thickness. For materials over 1”, contact the Institute for additional pricing.

NOTE: A facility usage fee of $140.00 per day will be charged for performing tests at Hobart Institute of Welding Technology.
ONLINE LEARNING

*IMPORTANT*

Hobart Institute of Welding Technology reviews each order for accuracy and to protect you and Hobart Institute of Welding Technology from fraud. After authorization and capture of your payment by Hobart Institute of Welding Technology personnel, you will be sent an email (typically within 1 business day) with access instructions for your course. Make sure to watch your incoming mail and spam folder. When you score 76% or higher, a Certificate of Completion will be issued for you to print that will contain the continuing education units earned for the online course. In addition, please add “welding.org” to your trusted/safe sender’s list.

OL-001
SYMBOLS FOR WELDING

0.4 CEU $89.00 SELF-PACED

This online version of the Symbols for Welding course is based on the AWS® A2.4 Symbols for Welding and Nondestructive Examination Standard. This system of communication provides the vital link between the designer and the people responsible for producing and planning welding.

Within the online course you will have the opportunity to download the EW-342 Symbols for Welding Learning Packet and work on specific problems, view the Symbols for Welding videos which are broken down into topic sections and take each of the three (3) required tests. Each test may be taken two (2) times.

Your password is good for a period of one year with unlimited log-ins during that time. Completion time for the course varies with each individual. Take into consideration the time to watch the videos plus the time to work through the learning packet plus the time to take the tests. You may start and stop at any point.

Upon purchase of the course, you will receive an email of your online receipt of purchase and a separate email with account access instructions and a link to the online course.

You may add the optional paper version of the Symbols for Welding Programmed Learning Packet (EW342) containing 113 pages, which will be mailed to you. Three tests are included with each student packet.

OL-002
VISUAL INSPECTION WELDING

0.4 CEU $89.00 SELF-PACED

This course concentrates on the single most used method of welding inspection — what we can see with the naked eye. Anyone involved with arc welding inspection, quality control, engineering or supervision should know the fundamentals of what to observe, prior to, during and after welding.

Contains 5 video segments totaling a run time of 60 minutes.

During this course you will learn about common weld gauges, temperature indicators, marking repair welds, visual inspection prior to, during, and after welding, terminology of weld defects, general requirements for equipment and workmanship standards, and a visual inspection checklist.

OL-003
WELDING DISCONTINUITIES AND DEFECTS

0.4 CEU $89.00 SELF-PACED

This course concentrates on defects and discontinuities related to welding and is intended to assist anyone involved in arc welding inspection, quality control, engineering or supervision. The objective is to be able to identify and determine the common causes of weld discontinuities and defects.

Contains 5 video segments totaling a run time of 70 minutes. Quizzes are provided to measure progress along the way with a final test to obtain a certificate of completion.

At your own pace from your computer you will view videos and will be able to take (and retake) online competency exams.
OL-004
DESTRUCTIVE TESTING METHODS
0.4 CEU $89.00 SELF-PACED
This course concentrates on the various destructive testing methods used to evaluate welds including tensile and impact tests, guided bend tests, nick break tests, fillet weld break tests, and etch tests. It is intended for those involved in welding inspection, quality control, engineering or supervision. The objective is to be able to perform tests and determine the weld defects.

Contains 7 video segments totaling a run time of 43 minutes. Quizzes are provided to measure progress along the way with a final test to obtain a certificate of completion.

OL-005
NONDESTRUCTIVE TESTING METHODS
0.4 CEU $89.00 SELF-PACED
This course concentrates on the various nondestructive testing methods used to evaluate welds including visual inspection, liquid penetrant testing, magnetic particle testing, ultrasonic testing, and radiographic testing. It is intended for those involved in welding inspection, quality control, engineering or supervision. The objective is to be able to evaluate welds and determine the weld defects.

Contains 6 video segments totaling a run time of 45 minutes. Quizzes are provided to measure progress along the way with a final test to obtain a certificate of completion.

At your own pace from your computer you will view videos and will be able to take (and retake) online competency exams.

OL-006
WELDING CHARACTERISTICS OF STEEL, STAINLESS STEEL, AND OTHER METALS
0.4 CEU $89.00 SELF-PACED
This course will provide the non-metallurgist with basic knowledge of various metals and their weldability. Anyone involved with welding will benefit from the better understanding of welding the different metals. Students will learn the basic principles of metal properties, heat input, preheating, postheating, selecting filler metals, plus many more topics including:

- Welding carbon and low alloy steels
- Welding tool and die steels
- Welding magnesium alloys
- Hard surfacing
- Welding stainless steels
- Welding aluminum alloys
- Welding cast iron
- Metals identification for welding

The course consists of 4 main topics:
1) The Metallurgy & Weldability of Carbon Steel;
2) The Welding Characteristics of Stainless Steel and Tool Steels
3) The Welding Characteristics of Aluminum and Magnesium;
4) Welding Cast Iron and Hard Surfacing Welds

Each topic contains slides and video segments totaling a run time of 60 minutes. At your own pace from your computer you will view videos and will be able to take (and retake) online competency exams.

OL-007
WELDING PROCEDURES AND QUALIFICATION
0.4 CEU $89.00 SELF-PACED
This course concentrates on the steps typically followed when developing and qualifying Welding Procedure Specifications (WPS). Additionally, Welder and Welding Operator Performance Qualification will be discussed.

Contains 1 main topic covering Welding Codes, Procedures, and Welder Qualification plus 5 video segments totaling a run time of 25 minutes. Quizzes are provided to measure progress along the way with a final test to obtain a certificate of completion.

At your own pace from your computer you will view videos and will be able to take (and retake) online competency exams.