



Course Catalog

WELDING TRAINING PROGRAM

Southcoast Welding Institute



Southcoast Welding Institute | A division of SCW&M



Welding Training Program

Welding Courses

FCAW, GTAW, GMAW are the most common subjects. Our welder training program also includes blueprint reading, welding symbols and metallurgy. You will not only learn how to weld, but how to weld safely. All of our courses have extensive safety training.



Mission Statement

Southcoast Welding Institute strives to achieve growth, excellence, and superiority within the shipyard and construction industries. Our goal is to be a proven leader in providing the best training and to be the best welding school in Southern California. Our technical courses are specially designed to serve any individual skill level from beginning to advanced welding and mirror our applied principles. It is our endeavor to facilitate classroom theory and hands-on training to successfully accomplish vocational goals and career objectives to provide the necessary trade skills and knowledge to pursue a profession in the welding industry.

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Updating Catalog

The Institute Catalog will be updated every year or as needed with amendment implements. A copy of the Catalog will be handed to every prospect student or to general public upon request.

This catalog is valid for the period of January 2017 through December 2017.

Catalog Policy

This catalog replaces all previous catalogs and supersedes all earlier oral and written material about Southcoast Welding Institute's procedures. Southcoast Welding Institute reserves the right to change, add or delete information from this catalog.

Prior to Enrollment

As a prospective student, you are encouraged to review this catalog prior to signing an enrollment agreement. You are also encouraged to review the School Performance Fact Sheet, which must be provided to you prior to signing an enrollment agreement.

BPPE Approved

Southcoast Welding Institute is a private institution and is approved to operate by the Bureau for Private Post-Secondary Education. Approval to operate means that Southcoast Welding Institute is in compliance with/and does not exceed the minimal state standards; however, it does not imply any endorsement for Institute programs.

Complaint Process

A student or any member of the public may file a complaint about this institution with the Bureau for Private Postsecondary Education by calling (888) 370-7589 or by completing a complaint form, which can be obtained on the bureau's internet website www.bppe.ca.gov

Questions

Any questions a student may have regarding this catalog that have not been satisfactorily answered by the institution may be directed to the Bureau for Private Postsecondary Education at 2535 Capitol Oaks Drive, Suite 400, Sacramento, CA 95833, www.bppe.ca.gov, toll-free telephone # (888) 370-7589, or by fax (916) 263-1897.

Hours of Operation

Office Hours: 7:00 a.m. – 3:30 p.m., Monday-Friday
(closed from 11:00 a.m. - 12:00 p.m.)
Phone: (619) 429-1337
Fax: (619) 429-1336
Office Address: 2591 Faivre Street, Building 1, Chula Vista, CA 91911
Institution Address: 2591 Faivre Street, Building 2, Chula Vista, CA 91911
Website: www.southcoastwelding.net

Classroom Hours

1st Time frame: 6:00 a.m. – 10:00 a.m.
2nd Time frame: 10:30 a.m. – 2:30 a.m.

Tuition Payment

Southcoast Welding Institute has two options for payments:

The first option is to pay the full tuition amount prior or on day of course start date. The second option consists of signing up with our tuition payment plan form. This form guarantees you make plans on time according to the scheduled day/hour amount. The payments are planned out according to the amount of hours/days consisted within each course.* There is a mandatory registration fee of \$250.00 for application process. This amount is non-refundable and included in the total cost of the course.

For FCAW, GMAW-MIG Aluminum, GTAW-TIG, and GTAW-TIG Pipe:

1st payment Due: By 1st day of course
2nd payment Due: By 10th day or by 40th hour of course
3rd payment Due: By 20th day or by 80th hour of course

For GMAW-MIG Advanced Aluminum with 5XXX Requirements:

1st payment Due: By 1st day of course
2nd payment Due: By 5th day of course or 20th hour of course
3rd payment Due: By 10th day of course or 40th hour of course

Payment(s) may be made with cashier's check or money order.

Make your check or money order payable to: Southcoast Welding & Manufacturing.

* The payments are due according to the overall course schedule set by Southcoast Welding Institute. They are not dependent on the student's amount of hours/days they have personally completed.

Loans

Student understands that if a third party is providing funds for his/her education, the student is then directly responsible for all moneys and payments owed to Southcoast Welding Institute.

Student understands that if loan is obtained to pay for an educational program, the student will have to repay the full amount of the loan plus interest, less the amount of any refund. If Student receives federal student financial aid funds, the student is entitled to a refund of the moneys not paid from federal financial aid funds.

Third Party Billing

Third Party Billing is a method of billing in which an entity (company or corporation) has established special billing arrangements to cover tuition and mandatory fees for students that it sponsors. This entity receives and makes payments against special bills mailed directly to a third-party office, and does not remit payment directly to a student's institution-generated bill.

The sponsor must submit a Letter of Authorization to the Finance & Accounting Department. The letter from the sponsor should include:

- 1) Student's name
- 2) Student's ID number
- 3) Semester or duration of program
- 4) Charges for which the student is responsible
- 5) Address to send the bill
- 6) Contact person's name and telephone number

Bankruptcy

Southcoast Welding Institute does not have a pending petition in bankruptcy, nor is operating as a debtor in possession. The Institute has not filed a petition within the preceding five years, nor has had a petition in bankruptcy filed against it within the preceding five years that resulted in reorganization under Chapter 11 of the United States Bankruptcy Code (11 U.S.C. Sect.1101 et seq.).

Financial Aid

Southcoast Welding Institute does not participate in any form of state or federal financial aid program. Student enrolled in an unaccredited institution is not eligible for federal financial aid programs.

VISA

Southcoast Welding Institute does not admit students from other countries.

Visa services are not provided, therefore SCWI will not vouch for student status and any associated charges.

Withdraws/ Refunds

Any student in attendance at Southcoast Welding Institute has the right to cancel the enrollment agreement and shall be refunded 100 percent of institutional charges (less the \$250.00 registration fee), if notice of cancellation is made through attendance at the first class session, or the seventh day after enrollment, whichever is later.

Each student at the institute has the right to withdraw from the course at any time. Withdrawals must be made through the Finance & Accounting Department.

Cancellation or withdrawal shall occur when the student gives a written notice of cancellation/ withdrawal addressed to Southcoast Welding Institute. Student has the option to deliver written notice by email, mail (to address of institute facility), or hand delivery directly to the Chief Academic Officer. Withdrawal is considered effective on the date that the notice is received and stamped. The purpose of the written notice of cancellation/withdrawal is to show that the student no longer wishes to be bound by the enrollment agreement.

Mandatory withdrawals may occur when conditions are met due to the student's misconduct. Such conditions include, but not limited to, a lack of attendance and tuition payments not paid on time.

Refund for students who have completed 60 percent or less of the period of attendance shall be prorated. Clock hours continue to run until the institute receives student's written notice of cancellation/withdrawal. Even if student is not at school, clock hours will accumulate until written notice of cancellation/withdrawal is received.

For students who are withdrawn from a course, a pro rata refund will be applied to the total amount owed to the student MINUS the \$250.00 non-reimbursable (registration fee). Pro rata will be calculated by the daily charge for the program, multiplied by the number of days student attended, or was scheduled to attend, prior to withdrawal.

Any refund or adjustment will be based on the official cancellation/ withdrawal date.

If student has not come in for refund within one week of withdrawal date, any amount owed will be mailed out to student's current mailing address on file within 45 days.

Admissions & Enrollment

- Southcoast Welding Institute has open enrollment prior to any course start date.
- Applicant must be at least (18) years of age or older.
- Applicant must provide valid proof of being a U.S. Person:
 - o Acceptable Documents (Birth Certificate, Passport, Certificate of Naturalization, or Permanent Resident Card)
- SCWI does not admit students from other countries/ visa services are not provided/ SCWI will not vouch for student status and any associated charges.
- The level of the courses are below college level. Students must have a high school diploma or its equivalent (GED).

- Student must be able to communicate in English at a level and in an idiom suitable to the subject. Must have the ability to read, write, and understand and respond verbal instructions, as well as participation involved. The documentation of proficiency that will be accepted is the Test of English as a Foreign Language (TOEFL). (For more TOEFL information see page 9 of this catalog)
- Credits earned at other college or university are non-transferable to SCWI.
- SCWI has an Open Exit Policy, meaning the student can withdraw from course at any time following withdrawal policies.
- Depending on course, there might be a prerequisite test needed prior to enrollment in the advanced course.

Transfer/ Articulation Agreements

Southcoast Welding Institute has not entered into an articulation or transfer agreement with any other college or university.

Ability to Benefit

Southcoast Welding Institute does not administer a test nor does it accept Ability to Benefit Students.

Student I.D. Cards

New students will be provided a Student ID and other related training materials at the time of enrollment. Returning and/or former students will receive the same information and will use the ID card and number originally issued. Replacement cards are available in the Admissions Office for a \$5 fee.

Distance Education:

Southcoast Welding Institute does not offer distance education.

English as a Second Language

English as a Second Language (ESL) Instruction is not provided at Southcoast Welding Institute. Student must be able to communicate in English at a level and in an idiom suitable to the subject. Must have the ability to read, write, and understand and respond verbal instructions, as well as participation involved. Classes will not be offered in any languages other than English. The documentation of proficiency that will be accepted is the Test of English as a Foreign Language (TOEFL). Southcoast Welding Institute will accept a United States High School Diploma/GED or its equivalence as documentation of language proficiency.

Non-native English language speakers who take the TOEFL exam, must present a score of 61 or higher for SCWI to accept student into program.

The student can find information and exam dates regarding the TOEFL exam at <http://www.ets.org/toefl>. (Student is responsible for all charges pertaining to exam)

Experiential Credit

Southcoast Welding Institute does not allow prospective students to take challenge examinations and achievement tests for credit or award of credit for prior experiential learning.

Attendance Policies

Students are expected to attend all classes on a regular basis for the duration of the course. Regular basis is during the course schedule of Monday-Friday, 4 hours each day between the hours of 6am-2:30pm (Depending on the course)

Students are enforced to report to class on time, and expect to remain in class for the duration of the course time. Attendance will be recorded daily.

The institution recognizes that individuals can become ill and that personal emergencies can occur. In case of absence, it is the student's responsibility to notify the Chief Academic Officer via phone, email, letter in advance, or prior to the class start time.

Excused absences are as follows: death within immediate family, illness with doctors' note, taking care of ill family member, or birth in immediate family.

If student fails to report to Chief Academic Officer after three consecutive unexcused absences, it will be considered an automatic drop from course.

Expectation for regular attendance is high, being that the course is only a duration of 80-120 hours (depending on the course). Since Education Programs at Southcoast Welding Institute are based on clock hours, attendance can affect the student from completing the educational program based on the clock hours required to complete the program. Those students that miss hours are still required to compensate their missed time. Students should not exceed 5 days of excused absence during the full course without compensating for missed time. Exceeding these 5 days will result in automatic drop.

Leave of Absence Policies

The Institution recognizes that students may need to be absent from their scheduled course for various reasons. A request for a leave of absence must be submitted in writing and approved by the Chief Academic Officer within a reasonable period of time prior to commencement of the leave. It is requested that the Student submit their request 1-3 days prior to their scheduled day of leave. Leave of absence may be granted in a maximum of five days for funeral/bereavement leave, military leave, sick leave, or to care for an ill family member. If an extension is needed, it is the students' responsibility to contact the Chief Academic Officer. Once the student returns from their leave of absence, it is recommended for students to make up hours during the scheduled course period. If needed, the

student may have their end date extend the amount of days the missed during leave (not to exceed 5 days). Being that the educational programs are reliant on clock hours, by extending the end date due to the amount of days (hours) missed, the student is then able to make up missed hours and training to fulfill the programs graduation requirements.

Probation and Dismissal Policies

Southcoast Welding Institute does not offer a probationary period for students. Due to the fact that it is an 80-120 hours course, the student may be asked to leave if academic progress is unsatisfactory. It is expected that students take initiative in learning the material and succeeding in all quizzes/weld tests to achieve a Certificate of Achievement at the end of the course.

Students are expected to attend all classes. Counseling will be provided by the Chief Academic Officer for students failing to maintain a satisfactory attendance record. If student fails to report to Chief Academic Officer after three consecutive unexcused absences, the Chief Academic Officer may dismiss the student for unsatisfactory attendance.

Academic progress will also be considered unsatisfactory in the nature that student does not compensate for missed time from course. If Student fails to reconcile missed classwork/training, it can be means for dismissal.

In addition, if the instructor finds that a student poses an issue that becomes a disruptive factor in class the instructor will first give a verbal warning to the student. If student does not correct the issue, it will be means for dismissal from the course.

Individuals not making satisfactory academic progress, as defined in this policy, may be denied early registration opportunities or continued admission.

Recordkeeping

Southcoast Welding Institute has an efficient procedure to maintain records of each current and former student enrolled in the course. The institution maintains a file for each student who enrolls whether or not the student completes the educational services. The student's information is extremely confidential, and the Chief Academic Officer of the program is the custodian of their files.

Southcoast Welding Institute Student Records along with transcripts are retained permanently from the student's date of completion or withdrawal. Students maintain two separate files –one academic and other financial. Both records are kept in a secure/locked fire resistant file cabinet located at the Chief Academic Officer's office. In addition to file cabinets, student's files are also stored in a Chief Academic Officer's computer file that can immediately reproduce exact, legible printed copies of stored records. The CAO is the only person who has absolute access into the institution's records. The finance and accounting department has access to the financial files only.

All records that Southcoast Welding Institute is required to maintain by the Act or this chapter will be made immediately available by the institution for inspection and copying during normal business hours by the Bureau and any entity authorized to conduct investigations.

Student Academic File

- Application for Admission (Student's information):
 - Personal Information: Name, Address, Age, Gender, Student Identification Number
 - Contact Information: Telephone Number and Email Address
 - Emergency contact information
 - Course Description: Title, Dates of Enrollment, Training Focus, and Tuition Amount/Payment Option
 - Admission requirement: Educational Background (High School Diploma/GED) and certifications/licenses/other skills
 - Affirmative Action: Citizenships Status, Ethnicity-Race (voluntarily)
- Verification document of high school diploma/GED
- Photo Identification
- Signed Enrollment Agreement
- Time Sheet
- Quizzes
- Course Evaluation
- Grades Earned by Student in Individual Course
- Certificate of Achievement
- Welding Qualification Record(s)
- Copy of Official Advisory Notices or Warnings Regarding the Student's Progress
- Complaints Received From the Student
- Withdrawal From the Institution and Leaves of Absences (If Applicable)

Student Financial File

- Tuition Payment Plan Form (Payment Information: Amount/Dates)
- Tuition Refund (If Applicable)
- Receipts
- Invoices

Indefinite Records

Southcoast Welding Institute will maintain student records indefinitely:

- Certificate granted and the date on which the certificate was granted.
- The courses on which the certificate was based.
- The grades earned by the student in each of those courses.

Custodian of Records

Chief Academic Officer- Elizabeth Molina

Records Location

2591 Faivre St. Bldg. 1, Chula Vista, CA 91911

Phone #: (619) 429-1337 Fax #: (619) 429-1336

This location is a secured gated complex in a temperature controlled environment.

Transfer of Credit

“NOTICE CONCERNING TRANSFERABILITY OF CREDITS AND CREDENTIALS EARNED AT OUR INSTITUTION”

“The transferability of credits you earn at Southcoast Welding Institute is at the complete discretion of an institution to which you may seek to transfer. Acceptance of the Certificate of Achievement you earn in the educational program is also at the complete discretion of the institution to which you may seek to transfer. If the Certificates of Achievement that you earn at this institution are not accepted at the institution to which you seek to transfer, you may be required to repeat some or all of your coursework at that institution. For this reason you should make certain that your attendance at this institution will meet your educational goals. This may include contacting an institution to which you may seek to transfer after attending Southcoast Welding Institute to determine if your Certificate of Achievement will transfer.”

Articulation Agreement

Southcoast Welding Institute does not maintain any transfer or articulation agreements between the institution and any other College or University.

Unaccredited Program Statement

Southcoast Welding Institute acknowledges that it is an unaccredited institution, which does not offer a degree with its program. Since the program is unaccredited, it is not recognized for some employment positions including, but not limited to, positions with the State of California. Students enrolled in our program, since it is unaccredited, are not eligible for federal financial aid. However we do acknowledge completion of our course with a Certificate of Achievement and provide job assistance to qualified candidates.

Housing

Southcoast Welding Institute has no dormitory facilities under its control and has no responsibility to find or provide assistance to the student in finding housing accommodations.

Average housing cost for apartments in the city of Chula Vista range from \$1,471.00 for a one bedroom apartment to \$1720.00 for a two bedroom apartment. Available housing is located reasonably near the institution's facilities.

Student Tuition Recovery Fund Statement

Student Tuition Recovery Fund, Non Refundable charge, \$0.00 per \$1,000.00.

You must pay the state-imposed assessment for the Student Tuition Recovery Fund (STRF) if all of the following applies to you:

1. You are a student in an educational program, who is a California resident, or are enrolled in a residency program, and prepay all or part of your tuition either by cash, guaranteed student loans, or personal loans and
2. Your total charges are not paid by any third-party payer such as an employer, government program or other payer unless you have a separate agreement to repay the third party.

You are not eligible for protection from the STRF and you are not required to pay the STRF assessment, if either of the following applies:

1. You are not a California resident, or are not enrolled in a residency program, or program or other payer, and you have no separate agreement to repay the third party.”

The State of California created the Student Tuition Recovery Fund (STRF) to relieve or mitigate economic losses suffered by students in educational programs who are California residents, or are enrolled in a residency programs attending certain schools regulated by the Bureau for Private Postsecondary and Vocational Education.

You may be eligible for STRF if you are a California resident or are enrolled in a residency program, prepaid tuition, paid the STRF assessment, and suffered an economic loss as a result of any of the following:

1. The school closed before the course of instruction was completed.
2. The school’s failure to pay refunds or charges on behalf of a student to a third party for license fees or any other purpose, or to provide equipment or materials for which a charge was collected within 180 days before the closure of the school.
3. The school’s failure to pay or reimburse loan proceeds under a federally guaranteed student’s loan program as required by law or to pay or reimburse proceeds received by the school prior to closure in excess of tuition and other costs.
4. There was a material failure to comply with the Act of this Division within 30 days before the school closed or, if the material failure began earlier than 30 days prior to closure, the period determined by the bureau.
5. An inability after diligent efforts to prosecute, prove, and collect on a judgement against the institution for a violation of the Act.

However, no claim can be paid to any student without a social security number or a taxpayer identification number.

Student Rights

- Student has the right to receive a Course Catalog and School Performance Fact Sheet prior to signing the Enrollment Agreement.
- Student has right to withdraw from the course at any time, for any reason. (Must be in accordance with the withdraw policy)

- Student has a right to cancel the given enrollment agreement with right to a refund MINUS the registration fee. This applies if cancelled within 7 days of enrollment or on the first day of class, whichever is later.
- Student has right to a refund if the school closes before projected course end date. (student may contact the Bureau for Private Postsecondary Education for information)
- Student has the right to be treated with respect and professionalism.
- Student has right to address any concern to the Bureau for Private Postsecondary Education at 2535 Capitol Oaks Drive, Suite 400, Sacramento, CA 95833, www.bppe.ca.gov, toll-free telephone # (888) 370-7589, or by fax (916) 263- 1897.

Student Grievances

Southcoast Welding Institute provides several means by which a student may address complaints and grievances. Students are advised to address their concerns in writing and carefully document the events that led to the complaint or grievance. A formal grievance should be presented to the Chief Academic Officer as soon as possible after the event occurs in form of a written grievance. This written grievance must include the following: name and phone number of the student making the grievance; identification of the individual against whom the grievance is brought, a detailed description of the incident with the date and time of the alleged incident, and if any, a list of any individual who witnessed any part of the incident in dispute.

The purpose of the written notice is to provide students an opportunity to resolve complaints alleging discrimination based upon any of the above listed grounds. It is the intent of the formal grievance that student complaints should be resolved, if at all possible, in the department or unit where they arise.

Upon receipt of the formal grievance, the Chief Academic Officer is appointed to conduct an investigation of the dispute. All informative data is kept strictly confidential.

Student can rest assured knowing that all proper procedures will be addressed in order to correct the dispute and protect the student.

Southcoast Welding Institute, prohibits discrimination, including harassment, on the basis of race, color, national origin, religion, sex disability, age, medical condition (cancer-related), ancestry, marital status, citizenship, or sexual orientation.

Student Services

Upon enrolling for the Southcoast Welding School, students are provided with all proper starting materials needed for the program. This includes; welding hood, welding jacket, welding gloves, safety glasses, and ear plugs.

Students are given an introduction to the course explaining what is to be expected, payment plan, schedule, and answers to any additional questions.

The Institution provides students with open access to administrators who are available for any academic needs student might have, including but not limited to, job placement guidance, questions relating to the course, and after hour guidance by the instructors.

Students obtain access to all learning resources as required by the curriculum through the instructors on-site.

While students are attending their welding classes, they may seek employment assistance with the Chief Academic Officer who cultivates relationships with the business community. In order to be considered for job placement assistance, students should complete the total amount of course hours, and show good academic and behavior status.

Standards for Student Achievement

- Students must complete the total amount of course hours and show good academic and behavioral status. The completion of the courses conform of eighty (80) to one hundred and twenty (120) hours.
- Students must follow Southcoast Welding Institute's attendance policy:
 - Students are expected to attend all classes on a regular basis for the duration of the course.
 - Students are enforced to report to class on time, and expect to remain in class for the duration of the course time. Attendance will be recorded daily.
 - The institution recognizes that individuals can become ill and that personal emergencies can occur. In case of absence, it is the student's responsibility to notify the school administrator either via phone or letter in advance, or prior to the class start time.
 - Student is responsible to obtain the class material missed from classmates or the instructor since class material will not be retaught.
 - Excused absences are as follows: death within immediate family, illness with doctors' note, or birth in immediate family.
 - After three consecutive unexcused absences, it will be considered an automatic drop with no reimbursement.
- Depending on the course, student must be able to perform production and maintenance welding on mild steel, stainless steel, copper nickel, and aluminum alloys in all positions used in the shipyard and commercial industry.
- Student must be able to select the correct electrode classification and parameters for various thicknesses of material and welding positions on ferrous and nonferrous metals.
- Student must be able to define principles of arc welding, select correct electrode amperage settings, identify arc welding principles and apply safe welding practices.
- Student must be able to interpret welding symbols, welding ferrous and nonferrous metals, and analyze surface defects in welds.

Upon successful completion of the vocational-technical educational curriculum, the students will obtain a Certificate of Achievement and Welding Procedure Qualification Record(s) in accordance with national recognized welding Codes or Specifications.

Job Placement Assistance

Southcoast Welding Institute was founded on the principal of assisting students in seeking meaningful employment upon program completion. To that end, Southcoast Welding Institute counts with a Job Placement Service dedicated to offering career development services.

While students are attending their welding classes, they may seek employment assistance with the Chief Academic Officer who cultivates relationships with the business community. In order to be considered for job placement assistance, students should complete the total amount of course hours, and show good academic and behavioral status.

The Chief Academic Officer is also the Human Resources Director for Southcoast Welding and Manufacturing, LLC., therefore, upon successful completion of the vocational-technical education curriculum, assistance in job placement in this enterprise will give priority to students from Southcoast Welding Institute when open positions become available. Southcoast Welding Institute will also function in coordination with industrial business enterprises to offer a job referral assistance program for qualified graduate students.

In addition to Southcoast Welding Institute Job Placement Assistance, students are encouraged and motivated to engage in self-directed job search, and are welcome to share job leads through the internal job network.

While Southcoast Welding Institute will make every conceivable effort in assisting students with career placement, we cannot guarantee that students will be placed. The reason for a non-successful job placement it is mainly because enterprises might not be in the hiring process upon completion of the courses, yet, applications will be placed on file and considered when notification of the start of the hiring process is notified.

Welding Employment Opportunities

Southcoast Welding Institute's educational program is designed to fit and prepare students for employment in the ship repair industry. Upon completing requirements for completion of the FCAW-MIG, GTAW-TIG, GMAW- MIG, GMAW- MIG Advanced, and GTAW- TIG Pipe Welding courses, students shall be prepared for the following occupations at their qualified rate:

- Welder Helper (Rate \$12.00-\$14.00/hr)
- Welder Journeyman (Rate \$15.00-\$24.00/hr)

Position and rate will vary depending on the skills/abilities acquired by the students. Rate in the Welder Journeyman position only, will also vary based upon students obtaining prior certifications: FCAW-MIG, GTAW-TIG, GMAW-MIG Aluminum, GMAW-MIG Advanced Aluminum, etc.

Facilities

Southcoast Welding Institute believes that school facilities and equipment are an important resource in developing and sustaining lifelong learning and a safe learning environment. The Institute offers the welding instructor and educator the right tools to bridge the manufacturing skills gap. These equipment packages are designed to meet student welding training needs. Southcoast Welding Institute maintains the school equipped for the specialized training of welding. There are plenty of work stations available in the shop area for the training courses. Fully equipped classroom support in-shop training with lessons in theory

The welding school is a 3600 square foot facility located inside Southcoast Welding & Manufacturing with a 32 person classroom, a 300 square foot training mockup, 22 each welding booths, and 20 each student lockers. (See attached diagrams).

Southcoast Welding Institute's office is located at 2591 Faivre Street Building #1, Chula Vista, CA 91911. The instruction of the courses -Institute's classroom, booths and mock up- is located in building #2 in the same address. The facilities are leased by Gary Caddell with address 2736 Paseo Portril Bonita, CA 91902 (See attached lease agreement).

The institution's facilities, including heating and cooling, ventilation, lighting, classrooms, welding booths, mock up, and campus environs, are well-maintain. These facilities count with evidence that support their authorization to operate:

- Verification of Exemption from the BPPE
- Business License-Business Tax Certificate
- Articles of Incorporation
- Seller's Permit
- Fire Prevention Information/Inspection
- Injury and Illness Prevention Plan
- American Welding Society Certifications

Equipment

All welding equipment is owned by Southcoast Welding & Manufacturing. The equipment used for instruction of the FCAW-MIG, GTAW-TIG, GMAW-MIG Aluminum, GMAW-MIG Advanced Aluminum and GTAW TIG Pipe Welding courses and provided to the student is comparable in model type and features to equipment generally used in the field. This equipment is not obsolete and is sufficient for instructional purposes to reasonably assure that the student acquires the necessary level of education, training, skill, and experience to obtain employment in the field of training and to perform the tasks associated with the position (Welder Helper/ Welder Journeyman) to which the Welding course was represented to lead.

The technical characteristics of welding equipment are determined by the welding method chosen, the type of production, and the degree of mechanization, that is, whether manual, semiautomatic, or automatic welding is performed. A career in welding will sometimes require working with dangerous tools in high-risk environments. Getting in the habit of wearing the appropriate protective gear is an absolute necessity.

Southcoast Welding Institute will utilize cutting-edge vocational education equipment that meets federal and state regulatory requirements to train students on the use and purpose of the following equipment:

- (20) Each - MILLER XMT 350 MPa CC/CV multiprocessor of inverter power source with built-in pulsed MIG capabilities. Power source can be used for GMAW, GMAW-P, SMAW, GTAW, FCAW and Air Carbon Arc Cutting.
- (20) Each - Miller X-Treme 12VS welding suitcase, for FCAW welding.
- (20) Each – Miller Spoolmatic one-pound spool guns, XR-A pistol grip push-pull gun for Aluminum GMAW welding.
- (22) Each - Avani Welding Booths with Ventilation
- (20) Each - CO2 Flowmeters
- (20) Each - Argon Flowmeters
- (20) Each - Hilti 4- ½” Grinders
- (20) Each - Students Lockers
- (2) Each – 150 Amp water cooled TIG Torches
- (2) Each – Craftmen Bench Grinders

Personal Protective Equipment (PPE)

- Welding Hood
- Welding Jacket
- Welding Gloves
- Safety Glasses
- Earplugs
- Steel Toe Boots (not included)

Faculty

Our Faculty is essential to the main educational mission of our institution. Given the importance, Southcoast Welding Institute has contracted duly qualified faculty members who meet the qualifications. Southcoast Welding Institute’s effective academic curriculum is staffed with skilled instructors who possess academic, experiential and professional qualifications to teach. Welding instructors possess a minimum of 30 years work experience in the field that support the education and training in current practices of the subject area they are teaching: work experience in welding technology, theoretical principles, and all the following areas of specialized expertise: Flux Cored Arc Welding (FCAW), Gas Tungsten Arc Welding (GTAW), Gas Metal Arc Welding (GMAW), and other technical competencies and disciplines such as plasma cutting, brazing of metal (ferrous and non-ferrous), oxyacetylene cutting (OAW), blueprint reading, welding arc safety, welding symbols and metallurgy, and metal fabrication. Southcoast Welding Institute’s welding instructors possess comprehensive knowledge in the following areas, such as inspecting welding processes, inspecting equipment for defects, evaluating equipment performance and tools that welder students might need

to operate (e.g., arc welders, welding shields, automated cutting torches, computerized welding software and rod ovens). Instructors possess core competencies in all aspects of welding such as basic math, metrics, basic metallurgy, heat treating and blueprint reading and are able to be taught and train student welders according to nationally recognized welding codes and procedures.

Our institution does not employ instructors who have been adjudicated in a judicial or administrative proceeding as having violated any provision of the California Private Postsecondary Education Act, or as having committed any act would constitute grounds for the denial of a license under Section 480 of the Business and Professions Code.

Duly qualified faculty is sufficient in number (two instructors per 20 students or less) to provide the instruction, student advisement, and learning outcomes evaluation necessary for the institution to document its achievement of its stated mission and objectives, and for students to achieve the specific learning objectives of each course offered. The practical training is provided in the welding booths/mockup designated for this particular course and the presence of both the general and the practical instructors is required. Theoretical and general subjects instruction is provided in the traditional classroom and given by the general instructor only. Four hours a day are needed for direct interaction between students and instructors per course. The general instructor (Siegfried Rachinger) in conjunction with the practical instructor (Joseph Pablo) created the curriculum of the courses in an effort to obtain educational success.

Southcoast Welding Institute establishes industry-recognized credentials of educators being duly qualified to satisfy regulatory and educational requirements for providing welder training and classroom instruction, as well as evaluating student learning outcomes, in an educational program not leading to a degree. Each Instructor maintains their knowledge by completing continuing education courses in their subject area. Welding instructors also are able to maintain current knowledge and certification (e.g., The American Welding Society) in their related field by continuing to undergo professional development and continually re-evaluate their teaching methods and performance skills.

Instructor's qualifications/certifications:

- General Instructor- Siegfried Rachinger
 - 31 years of experience in the welding industry
 - Certified in:
 - FCAW Steel Plate MIL 71T-1C
 - GTAW Pipe CuNi MIL RN67
 - GTAW Pipe Socket Weld CuNi MIL RN67
 - GTAW Pipe Steel 70S-6
 - GTAW Pipe CuNi Stainless Steel MIL RN82
 - GTAW Aluminum Plate ER5356
 - GTAW Pipe Stainless Steel ER316
 - GTAW Steel/ CuNi RN60
 - GTAW Pipe Stainless Steel ER308
 - SMAW Steel HY80 MIL 11018
 - GMAW Aluminum Plate ER5356

- Potter Road Center School in West Seneca, N.Y.: Basic and Advanced MIG welding, TIG welding, Stick welding and Blue Print Reading for Welders
 - GED from New York State
 - Certifications and licenses from the American Welding Society:
 - Certify as a Welding Educator (CWE)
 - Certify as Welding Inspector (CAWI)
 - Certify compliance with the requirements of AWS QC5.
 - Certification on Math for Welders Level 1
 - Certification on Welding Symbols
 - Certification on Safety in Welding Program
 - Certification on Welding Fundamental Programs
 - General instructor acquires advanced training by attending vocational-technical educational and/or teacher-training institutes, courses, or career centers for Certified Welder Educator Programs and certify Welding Instructor credentials at least once every five years.
- Practical Instructor- Joseph Pablo
 - 42 years of experience in the welding industry
 - Experience in Plasma Arc Cutting, Torch Cutting and Carbon Arc
 - Certified in:
 - AWS SMAW Pipe 6G E7018M
 - SMAW Plate ABS E7018M
 - SMAW Plate E7018M
 - SMAW Steel HY80 MIL 11018
 - FCAW Steel Plate MIL 71T
 - FCAW Stainless Steel ER316L-1C
 - FCAW Steel Plate MIL 101-1C HY80
 - GMAW Aluminum Plate ER5356
 - GTAW Aluminum Plate ER5356
 - GTAW Pipe CuNi MIL RN67
 - GTAW Steel/ CuNi RN60
 - GTAW Pipe Stainless Steel Plate 316L
 - GTAW Pipe Stainless Steel ER316L

Libraries and Other Learning Resources

Southcoast institute does not count with library installations/service; however, we provide other learning resources that are sufficient to support the instructional needs of students.

Students obtain access to all learning resources as required by the curriculum through the instructors on-site.

The method of instruction at Southcoast Welding Institute consists of lecture, audio, visual, and hands-on welding training. The class training is composed of 90 percent devoted to practical training and 10 percent to theoretical instruction/general subjects respectively, as well as visual examination of welds.

Students that take a course in FCAW-MIG, GTAW-TIG, GMAW-MIG Aluminum, and GTAW-TIG Pipe are provided with Welding Training Materials from Hobart Institute of Welding Technology products. Hobart is highly recognized for its world-class curriculum materials on all major processes based on American Welding Society SENSE (Schools Excelling through National Skill Standards Education) criteria. These products entail a step-by-step approach to practice sessions, featuring objectives; set-up instructions; materials and machine settings; and summaries of essential theory with a lot of illustrations. The workbooks are designed to facilitate skill transfer.

Students that take a course in GMAW-MIG Advanced Aluminum are provided with Naval Sea Systems Command course materials. Naval Sea Systems Command (NAVSEA) is the largest of the Navy's five system commands. With a fiscal year budget of nearly \$30 billion, NAVSEA accounts for one quarter of the Navy's entire budget. The Naval Sea Systems Command is comprised of command staff, headquarters directorates, affiliated Program Executive Offices (PEOs) and numerous field activities. Together, they engineer, build, buy and maintain ships, submarines and combat systems that meet the Fleet's current and future operational requirements (www.navsea.navy.mil).

Textbooks & Course Materials

FCAW-MIG Welding: Textbook & Course Materials

- Hobart Institute of Welding Technology. (2010). *Flux Cored Arc Welding Workbook*. Troy, OH: Hobart Institute.
 - 3 DVDs (2hrs. 20min.)
 - 1 Instructor Guide
 - 2 Written Quizzes
 - Student Workbook
 - Technical Guide

GTAW – TIG Welding: Textbook & Course Materials

- Hobart Institute of Welding Technology. (2010). *Gas Tungsten Arc Welding Workbook*, Troy, OH, Hobart Institute.
 - 4 DVDs (3hrs. 40min.)
 - 1 Instructor Guide
 - 4 written quizzes
 - Student Workbook
 - Technical Guide

GMAW-MIG Aluminum Welding: Textbook & Course Materials

- Hobart Institute of Technology. (2010) *Gas Metal Arc Welding Basic*. Troy, OH: Hobart Institute
 - 3 DVDs (2hrs. 35min.)
 - 1 Instructor Guide
 - 2 Written quizzes
 - Student Workbook
 - Technical Guide

GMAW – MIG Advanced Aluminum: Textbook & Course Materials

- Naval Sea Systems Command. (2010) Quality Assurance Requirements for Welding of 5XXX Series Aluminum Structures. Washington Navy Yard, DC
- Handout NAVSEA QA Requirements for 5XXX Aluminum
- PCP Training Handout
- MIL STD 22D Handout
- Power point Presentation Welding of 5XXX Series Aluminum Structures
- Power Point PCP Training

GTAW – TIG Pipe Welding: Textbook & Course Materials

- Hobart Institute of Welding Technology. (2010). Gas Tungsten Arc Welding 2 Inch Pipe. Troy, OH: Hobart Institute
- 2 DVDs (3hrs. 40min.)
- 1 Instructor Guide
- 4 Written quizzes
- Student Workbook
- Technical Guide

Students train from these workbooks, along with handouts and videos during class time. Therefore, the need of a library is found to be unnecessary since all learning tools and training are provided to students on-site.

Description of Programs Offered

FCA001 Flux Cored Arc Welding (FCAW) – MIG

\$2,400.00 Total Charges for Period of Attendance (\$80.00 per scheduled day)

Course Mission

To successfully accomplish vocational goals and career objectives to provide the necessary trade skills and knowledge to pursue a profession in the welding industry.

Course Objective

Upon successful completion of Flux Cored Arc Welding (FCAW) - MIG, each student will have an understanding on how the FCAW process works and be able to perform a fillet and groove welds in all positions. This course enables the students to produce quality fillet and groove welds on carbon steel using diameter electrode wires, large diameter gas shielded and self-shielded electrode wires as well as metal cored wires. This course also develops skills for welder in shipyard and commercial industries.

Educational Program Description

The FCA001 Flux Cored Arc Welding (FCAW) – MIG course is designed to teach welders about arc welding safety and the flux cored arc welding process in this 120 hours preparatory beginner course.

Seventy (70) hours of booth/mockup instruction and ten (10) hours of theoretical/general subjects, as well as forty (40) hours of mock up training make up this course. This course provides the beginner student with a thorough technical understanding of flux cored arc welding, welding metallurgy, joint design and blueprint reading. This course is designed to provide training to develop welding skills on carbon steels using small and large diameter flux-cored electrodes (with and without shielding gas) in all positions on fillet and groove welds. This course also teaches trouble shooting and the use of the proper equipment, filler metal selection, and welding with different gases.

- Learn fundamentals of FCAW-MIG
- Welding Procedures are taught on mild steel
- Welding on edge, corner, lap, butt fillet welds, and groove welds in all positions.

Tuition for this course is \$2,400.00. Training Materials and some PPE (Personal Protected Equipment) included: Welding Hood, Welding Jacket, Welding Gloves, safety glasses, ear plugs, and Workbook.

Instructional Method

The instruction offered for the FCAW-MIG Welding course leads to the achievement of the learning objectives; and the administrative and faculty are responsible for having a Direct Instruction consistent with the mission, purposes, and objectives of Southcoast Welding Institute.

The method of instruction of the FCAW-MIG Welding course consists of lecture, audio, visual, and hands-on welding training. This training is composed of 90 percent of class time devoted to practical training, and 10 percent to theoretical instruction and general subjects respectively. The practical training is provided in the welding booths designated for this particular course and the presence of both the general and the practical instructors is required. In addition to performing the practical training in the welding booths, students use a mock-up, which is a model or replica of a ship compartment where students can simulate real life welding applications in restricted positions. Theoretical and general subject's instruction is provided in the traditional classroom and given by the general instructor only. All the training is facilitated at Southcoast Welding Institute's installations located in 2591 Faivre Street, Bldg. #2, Chula Vista, CA 91911.

Students are evaluated on attendance, 2 written quizzes, and visual examination of welds. Instructor is evaluated by peer instructor and employer.

Prerequisites

- The level of the FCAW-MIG course is below college level. Students must have a High School Diploma or its equivalent (GED).
- Student must be able to communicate in English at a level and in an idiom suitable to the subject. Must have the ability to read, write, and understand and respond verbal instructions, as well as participation involved.
- There is no prerequisite for testing in this program.

Requirements for completion

- Students must complete the total amount of course hours and show good academic and behavioral status. The completion of the course conforms of one hundred and twenty (120) hours.
- Students must follow Southcoast Welding Institute's attendance policy:
 - Students are expected to attend all classes on a regular basis for the duration of the course.
 - Students are enforced to report to class on time, and expect to remain in class for the duration of the course time. Attendance will be recorded daily.
 - The institution recognizes that individuals can become ill and that personal emergencies can occur. In case of absence, it is the student's responsibility to notify the school administrator either via phone or letter in advance, or prior to the class start time.
 - Student is responsible to obtain the class material missed from classmates or the instructor since class material will not be retaught.
 - Excused absences are as follows: death within immediate family, illness with doctors' note, or birth in immediate family.
 - After three consecutive unexcused absences, it will be considered an automatic drop with no reimbursement.
- Student must be able to perform production and maintenance welding on mild steel in all positions used in the shipyard and commercial industry: Produce quality fillet and groove welds on carbon steel using small diameter electrode wires, large diameter gas shielded and self-shielded electrode wires as well as metal cored wires.
- Student must be able to select the correct electrode classification and parameters for various thicknesses of material and welding positions on ferrous and nonferrous metals.
- Student must be able to define principles of arc welding, select correct electrode amperage settings, identify arc welding principles and apply safe welding practices.
- Student must be able to interpret welding symbols, welding ferrous and nonferrous metals, and analyze surface defects in welds.
- Upon successful completion of the vocational-technical educational curriculum, the students will obtain a Certificate of Achievement and Welding Procedure Qualification Record(s) in accordance with national recognized welding Codes or Specifications.



Figure 1: FCAW- Flux Cored

GTA001 Gas Tungsten Arc Welding (GTAW) – TIG

\$2,400.00 Total Charges for Period of Attendance (\$80.00 per scheduled day)

Course Mission

To successfully accomplish vocational goals and career objectives to provide the necessary trade skills and knowledge to pursue a profession in the welding industry.

Course Objective

Upon successful completion of Gas Tungsten Arc Welding (GTAW) - TIG, each student will have an understanding on how the GTAW process and be able to perform a fillet weld in all positions. The student will be able to produce quality fillet and square groove welds on thin carbon steel, stainless steel and aluminum in the flat, horizontal and vertical positions, using the gas tungsten arc welding process. This course also develops skills for welder, Arc, Production line welder, tack welder and the Arc Welding portion of Combination Welder.

Educational Program Description

The GTA001 Gas Tungsten Arc Welding (GTAW) – TIG course is designed to teach welders about arc welding safety and the gas tungsten arc process in this 120 hours preparatory beginner course. One hundred and ten (110) hours of booth/mockup instruction and ten (10) hours of theoretical/general subjects make up this course. This course provides training to develop the skills necessary to make quality

gas tungsten arc welds on 16 and 11 gauge mild steel, .062-inch gauge material is presented on the weld characteristics of carbon steel, stainless steel and aluminum. Information on pulsed current is included to prepare the student for more detailed applications of pulsed current used in gas tungsten arc welding.

- Learn fundamentals of GTAW (TIG)
- Welding Procedures are taught on aluminum, mild steel and stainless steel.
- Welding on edge, corner, lap, butt and fillet welds.
- Welding is limited to 11 gauge materials which does not include thick plate, pipe or other irregular shapes

Tuition for this course is \$2,400.00. Training Materials and some PPE (Personal Protected Equipment) included: Welding Hood, Welding Jacket, Welding Gloves, safety glasses, ear plugs, and Workbook.

Instructional Method

The instruction offered for the GTAW-TIG Welding course leads to the achievement of the learning objectives; and the administrative and faculty are responsible for having a Direct Instruction consistent with the mission, purposes, and objectives of Southcoast Welding Institute.

The method of instruction of the GTAW-TIG Welding course consists of lecture, audio, visual, and hands-on welding training. This training is composed of 90 percent of class time devoted to practical training, and 10 percent to theoretical instruction and general subjects respectively. The practical training is provided in the welding booths designated for this particular course and the presence of both the general and the practical instructors is required. In addition to performing the practical training in the welding booths, students use a mock-up, which is a model or replica of a ship compartment where students can simulate real life welding applications in restricted positions. Theoretical and general subjects instruction is provided in the traditional classroom and given by the general instructor only. All the training is facilitated at Southcoast Welding Institute's installations located in 2591 Faivre Street, Bldg. #2, Chula Vista, CA 91911.

Students are evaluated on attendance, 4 written quizzes, and visual examination of welds. Instructor is evaluated by peer instructor and employer.

Prerequisites

- The level of the GTAW-TIG course is below college level. Students must have a High School Diploma or its equivalent (GED).
- Student must be able to communicate in English at a level and in an idiom suitable to the subject. Must have the ability to read, write, and understand and respond verbal instructions, as well as participation involved.
- There is no prerequisite for testing in this program.

Requirements for completion

- Students must complete the total amount of course hours and show good academic and behavioral status. The completion of the course conforms of one hundred and twenty (120) hours.
- Students must follow Southcoast Welding Institute's attendance policy:
 - Students are expected to attend all classes on a regular basis for the duration of the course.
 - Students are enforced to report to class on time, and expect to remain in class for the duration of the course time. Attendance will be recorded daily.
 - The institution recognizes that individuals can become ill and that personal emergencies can occur. In case of absence, it is the student's responsibility to notify the school administrator either via phone or letter in advance, or prior to the class start time.
 - Student is responsible to obtain the class material missed from classmates or the instructor since class material will not be retaught.
 - Excused absences are as follows: death within immediate family, illness with doctors' note, or birth in immediate family.
 - After three consecutive unexcused absences, it will be considered an automatic drop with no reimbursement.
- Student must be able to perform production and maintenance welding on mild steel, stainless steel, and aluminum alloys in all positions used in the shipyard and commercial industry.
- Student must be able to select the correct electrode classification and parameters for various thicknesses of material and welding positions on ferrous and nonferrous metals.
- Student must be able to define principles of arc welding, select correct electrode amperage settings, identify arc welding principles and apply safe welding practices.
- Student must be able to interpret welding symbols, welding ferrous and nonferrous metals, and analyze surface defects in welds.
- Upon successful completion of the vocational-technical educational curriculum, the students will obtain a Certificate of Achievement and Welding Procedure Qualification Record(s) in accordance with national recognized welding Codes or Specifications.



Figure 2: GTAW- TIG

GMA002 Gas Metal Arc Welding (GMAW) – MIG Aluminum

\$2,400.00 Total Charges for Period of Attendance (\$80.00 per scheduled day)

Course Mission

To successfully accomplish vocational goals and career objectives to provide the necessary trade skills and knowledge to pursue a profession in the welding industry.

Course Objective

Upon successful completion of Gas Metal Arc Welding (GMAW) – MIG Aluminum, each student will have an understanding on how the GMAW process works and be able to perform a fillet weld in all positions. The student will be able to produce quality multiple pass fillet welds and groove welds on aluminum plate in all positions, using GMAW process. Quality is determined through visual inspection and mechanical testing. This course also develops skill for welding in ship repair and commercial industries.

Educational Program Description

The GMA002 Gas Metal Arc Welding (GMAW) – MIG Aluminum course is designed to teach welders about arc welding safety and the gas metal arc process in this 120 hours course. One hundred and ten (110) hours of booth instruction and ten (10) hours of lecture and practice make up this course. It also provides the skills necessary to make quality gas metal arc welds in all positions aluminum from 3/16-inch sheet to

3/8-inch plate, single and multiple pass, using short circuit transfer. This course also illustrates problems associated with welding situations and provides remedial technical information such as weld troubleshooting and techniques for making various welds in all positions, explanation of welding symbols and blueprint reading, and criteria for the selection of various electrodes and selection of gasses.

- Weld troubleshooting and techniques for making various welds in all positions
- Explanation of welding symbols and blueprint reading
- Criteria for the selection of various electrodes and selection of gases

Tuition for this course is \$2,400.00. Training Materials and some PPE (Personal Protected Equipment) included: Welding Hood, Welding Jacket, Welding Gloves, safety glasses, ear plugs, and Workbook.

Instructional Method

The instruction offered for the GMAW- MIG Aluminum Welding course leads to the achievement of the learning objectives; and the administrative and faculty are responsible for having a Direct Instruction consistent with the mission, purposes, and objectives of Southcoast Welding Institute.

The method of instruction of the GMAW- MIG Aluminum Welding course consists of lecture, audio, visual, and hands-on welding training. This training is composed of 90 percent of class time devoted to practical training, and 10 percent to theoretical instruction and general subjects respectively. The practical training is provided in the welding booths designated for this particular course and the presence of both the general and the practical instructors is required. In addition to performing the practical training in the welding booths, students use a mock-up, which is a model or replica of a ship compartment where students can simulate real life welding applications in restricted positions. Theoretical and general subjects instruction is provided in the traditional classroom and given by the general instructor only. All the training is facilitated at Southcoast Welding Institute's installations located in 2591 Faivre Street, Bldg. #2, Chula Vista, CA 91911.

Students are evaluated on attendance, 2 written quizzes, and visual examination of welds. Instructor is evaluated by peer instructor and employer.

Prerequisites

- The level of the GMAW-MIG Aluminum course is below college level. Students must have a High School Diploma or its equivalent (GED).
- Student must be able to communicate in English at a level and in an idiom suitable to the subject. Must have the ability to read, write, and understand and respond verbal instructions, as well as participation involved.
- There is no prerequisite for testing in this program.

Requirements for completion

- Students must complete the total amount of course hours and show good academic and behavioral status. The completion of the course conforms of one hundred and twenty (120) hours.
- Students must follow Southcoast Welding Institute's attendance policy:
 - Students are expected to attend all classes on a regular basis for the duration of the course.
 - Students are enforced to report to class on time, and expect to remain in class for the duration of the course time. Attendance will be recorded daily.
 - The institution recognizes that individuals can become ill and that personal emergencies can occur. In case of absence, it is the student's responsibility to notify the school administrator either via phone or letter in advance, or prior to the class start time.
 - Student is responsible to obtain the class material missed from classmates or the instructor since class material will not be retaught.
 - Excused absences are as follows: death within immediate family, illness with doctors' note, or birth in immediate family.
 - After three consecutive unexcused absences, it will be considered an automatic drop with no reimbursement.
- Student must be able to perform production and maintenance welding on aluminum alloys in all positions used in the shipyard and commercial industry.
- Student must be able to select the correct electrode classification and parameters for various thicknesses of material and welding positions on ferrous and nonferrous metals.
- Student must be able to define principles of arc welding, select correct electrode amperage settings, identify arc welding principles and apply safe welding practices.
- Student must be able to interpret welding symbols, welding ferrous and nonferrous metals, and analyze surface defects in welds.
- Upon successful completion of the vocational-technical educational curriculum, the students will obtain a Certificate of Achievement and Welding Procedure Qualification Record(s) in accordance with national recognized welding Codes or Specifications.



Figure 3: GMAW-MIG Aluminum

GMA003 Gas Metal Arc Welding (GMAW) – MIG Advanced Aluminum with 5XXX Requirements

\$1,800.00 Total Charges for Period of Attendance (\$90.00 per scheduled day)

Course Mission

To successfully accomplish vocational goals and career objectives to provide the necessary trade skills and knowledge to pursue a profession in the welding industry.

Course Objective

Upon successful completion of the Gas Metal Arc Welding (GMAW) – MIG Advanced, each student will have an understanding on how the GMAW process works and be able to perform a fillet weld in all positions. The student will develop ability to produce quality fillet and groove welds on carbon steel and aluminum using pulse or spray transfer. This course also develops skills for Welder, Arc (DOT810.384-014).

Educational Program Description

The GMA003 Gas Metal Arc Welding (GMAW) – MIG Advanced Aluminum with 5XXX Requirements course is designed to teach welders about arc welding safety and the gas metal arc process in this 80 hours advanced course. Seventy (70) hours of booth/mockup instruction and ten (10) hours of theoretical/general subjects make up this course. The Advanced Aluminum course has special emphasis on Navy Ship Repair 5XXX requirements. Is designed to provide the student with thorough technical understanding and working knowledge of Pulse MIG welding, welding with different gases, filler metal requirements, welding with ceramic backing and reading and understanding a process control procedure.

This course also provides training on pulse transfer other than the short circuiting, which is covered in the Gas Metal Arc Welding course. The pulse transfer provides for high deposition rate for all positions. This course also includes gas metal arc welding of aluminum.

- Weld troubleshooting and techniques for making various welds in all positions
- Explanation of welding symbols and blueprint reading
- Criteria for the selection of various electrodes and selection of gases

Tuition for this course is \$1,800.00. Training Materials and some PPE (Personal Protected Equipment) included: Welding Hood, Welding Jacket, Welding Gloves, safety glasses, ear plugs, and Workbook.

Instructional Method

The instruction offered for the GMAW – MIG Advanced Aluminum Welding course leads to the achievement of the learning objectives; and the administrative and faculty are responsible for having a Direct Instruction consistent with the mission, purposes, and objectives of Southcoast Welding Institute. The method of instruction of the GMAW – MIG Advanced Aluminum Welding course consists of lecture and hands-on welding training. This training is composed of 90 percent of class time devoted to practical training, and 10 percent to theoretical instruction and general subjects respectively. The practical training is provided in the welding booths designated for this particular course and the presence of both the general and the practical instructors is required. In addition to performing the practical training in the welding booths, students use a mock-up, which is a model or replica of a ship compartment where students can simulate real life welding applications in restricted positions. Theoretical and general subjects instruction is provided in the traditional classroom and given by the general instructor only. All the training is facilitated at Southcoast Welding Institute's installations located in 2591 Faivre Street, Bldg. #2, Chula Vista, CA 91911.

Students are evaluated on attendance, 4 written quizzes, and visual examination of welds. Instructor is evaluated by peer instructor and employer.

Prerequisites

- Student must be able to communicate in English at a level and in an idiom suitable to the subject. Must have the ability to read, write, and understand and respond verbal instructions, as well as participation involved.
- Credits earned at other college or university are non-transferable to SCWI.
- The student must have successfully completed GMA002 Gas Metal Arc Welding (GMAW) – MIG Aluminum prior to class enrollment. If student wish to bypass this introductory course to enter GMA003 Gas Metal Arc Welding (GMAW) – MIG Advanced Aluminum with 5XXX Requirements, the student must pass a practical welding prerequisite test. The student will need to perform "T-Test". This test consists in welding GMAW Aluminum in a 3G Vertical position.
- Prerequisite testing is scheduled during the week prior to starting 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. Southcoast Welding Institute does not give credit for previous courses completed at other institutions. Only one attempt to pass any prerequisite test will be allowed.

Requirements for completion

- Students must complete the total amount of course hours and show good academic and behavioral status. The completion of the course conforms of eighty (80) hours.
- Students must follow Southcoast Welding Institute’s attendance policy:
 - Students are expected to attend all classes on a regular basis for the duration of the course.
 - Students are enforced to report to class on time, and expect to remain in class for the duration of the course time. Attendance will be recorded daily.
 - The institution recognizes that individuals can become ill and that personal emergencies can occur. In case of absence, it is the student's responsibility to notify the school administrator either via phone or letter in advance, or prior to the class start time.
 - Student is responsible to obtain the class material missed from classmates or the instructor since class material will not be retaught.
 - Excused absences are as follows: death within immediate family, illness with doctors’ note, or birth in immediate family.
 - After three consecutive unexcused absences, it will be considered an automatic drop with no reimbursement.
- Student must be able to perform production and maintenance welding on aluminum alloys in all positions used in the shipyard and commercial industry.
- Student must be able to select the correct electrode classification and parameters for various thicknesses of material and welding positions on ferrous and nonferrous metals.
- Student must be able to define principles of arc welding, select correct electrode amperage settings, identify arc welding principles and apply safe welding practices.
- Student must be able to interpret welding symbols, welding ferrous and nonferrous metals, and analyze surface defects in welds.
- Upon successful completion of the vocational-technical educational curriculum, the students will obtain a Certificate of Achievement and Welding Procedure Qualification Record(s) in accordance with national recognized welding Codes or Specifications.



Figure 4: GMAW- MIG Advanced

GTA004 Gas Tungsten Arc Welding (GTAW) – TIG Pipe

\$2,900.00 Total Charges for Period of Attendance (\$96.67 per scheduled day)

Course Mission

To successfully accomplish vocational goals and career objectives to provide the necessary trade skills and knowledge to pursue a profession in the welding industry.

Course Objective

Upon successful completion of Gas Tungsten Arc Welding (GTAW) - TIG Pipe, each student will have an understanding on how the GTAW process works and be able to perform a 6G Pipe test. The student will develop the ability to produce quality fillet and groove welds on carbon steel and copper nickel pipe (CUNI) using the GTAW process.

Educational Program Description

GTAW – TIG Pipe Welding: The Gas Tungsten Arc Welding course is designed to teach students about arc welding safety and the TIG Pipe welding process in this one hundred and twenty (120) hours advanced course. One hundred and ten (110) hours of booth/mockup instruction and ten (10) hours of theoretical/general subjects make up this course. This course will prepare the student to pass 6G pipe test to Military, ASME and AWS standards. This course is designed to provide the student with a thorough technical understanding and working knowledge of weld troubleshooting, welding techniques in all positions, explanation of weld symbols, joint design, blueprints, filler metal requirements, proper shielding gas, and equipment set-up.

- Weld troubleshooting and techniques for making various welds in all positions
- Explanation of welding symbols and blueprint reading
- Criteria for the selection of various electrodes and selection of gases

Tuition for this course is \$2,900.00. Training Materials and some PPE (Personal Protected Equipment) included: Welding Hood, Welding Jacket, Welding Gloves, safety glasses, ear plugs, and Workbook.

Instructional Method

The instruction offered for the GTAW – TIG Pipe Welding course leads to the achievement of the learning objectives; and the administrative and faculty are responsible for having a Direct Instruction consistent with the mission, purposes, and objectives of Southcoast Welding Institute.

The method of instruction of the GTAW – TIG Pipe Welding course consists of lecture and hands-on welding training. This training is composed of 90 percent of class time devoted to practical training, and 10 percent to theoretical instruction and general subjects respectively. The practical training is provided in the welding booths designated for this particular course and the presence of both the general and the practical instructors is required. In addition to performing the practical training in the welding booths, students use a mock-up, which is a model or replica of a ship compartment where students can simulate real life welding applications in restricted positions. Theoretical and general subjects instruction is provided in the traditional classroom and given by the general instructor only. All the training is facilitated at Southcoast Welding Institute’s installations located in 2591 Faivre Street, Bldg. #2, Chula Vista, CA 91911.

Students are evaluated on attendance, 4 written quizzes, and visual examination of welds. Instructor is evaluated by peer instructor and employer.

Prerequisites

- The level of the GTAW- TIG Pipe course is below college level. Students must have a High School Diploma or its equivalent (GED).
- Student must be able to communicate in English at a level and in an idiom suitable to the subject. Must have the ability to read, write, and understand and respond verbal instructions, as well as participation involved.
- The student must have successfully completed GTA001 Gas Tungsten Arc Welding (GTAW) – TIG prior to class enrollment. If student wish to bypass this introductory course to enter GTA004 Gas Tungsten Arc Welding (GTAW) – TIG Pipe, the student must pass a practical welding prerequisite test. The student will need to perform “T-Test”. This test consists in welding GTAW Carbon Steel in a 3G Vertical position.
- Prerequisite testing is scheduled during the week prior to starting 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. Southcoast Welding Institute does not give credit for previous courses completed at other institutions. Only one attempt to pass any prerequisite test will be allowed.

Requirements for completion

- Students must complete the total amount of course hours and show good academic and behavioral status. The completion of the course conforms of one hundred and twenty (120) hours.
- Students must follow Southcoast Welding Institute's attendance policy:
 - Students are expected to attend all classes on a regular basis for the duration of the course.
 - Students are enforced to report to class on time, and expect to remain in class for the duration of the course time. Attendance will be recorded daily.
 - The institution recognizes that individuals can become ill and that personal emergencies can occur. In case of absence, it is the student's responsibility to notify the school administrator either via phone or letter in advance, or prior to the class start time.
 - Student is responsible to obtain the class material missed from classmates or the instructor since class material will not be retaught.
 - Excused absences are as follows: death within immediate family, illness with doctors' note, or birth in immediate family.
 - After three consecutive unexcused absences, it will be considered an automatic drop with no reimbursement.
- Student must be able to perform production and maintenance welding on mild steel, stainless steel, copper nickel, and aluminum alloys in all positions used in the shipyard and commercial industry.
- Student must be able to select the correct electrode classification and parameters for various thicknesses of material and welding positions on ferrous and nonferrous metals.
- Student must be able to define principles of arc welding, select correct electrode amperage settings, identify arc welding principles and apply safe welding practices.
- Student must be able to interpret welding symbols, welding ferrous and nonferrous metals, and analyze surface defects in welds.
- Upon successful completion of the vocational-technical educational curriculum, the students will obtain a Certificate of Achievement and Welding Procedure Qualification Record(s) in accordance with national recognized welding Codes or Specifications.



Figure 5: GTAW- TIG Pipe

Cost of courses are individually charged. Student is not obligated to attend all courses. If student decides to take all courses in sequence, the total charges for the entire educational program will be \$11,900.00

Standard Occupational Classification Codes

Pursuant to California Education Code (CEC §94910(f)(2)), Southcoast Welding Institute uses this list to identify employment positions in the field of welding. Students graduating from the program will be prepared to perform duties in occupational fields related to the following:

SOC Code	Occupation
51-4121	Welders, Arc Welders, Cutters, Solderers, Brazers, Pipe Welders
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders



Schedule of Classes Vary by Cycle.

**Please Call Southcoast Welding & Mfg. to Get
More Information.**