



Southern California Welding Training & Testing Center
1641 Pacific Ave suite #94 Oxnard CA, 93033
805.486.8700 SCWTTC@gmail.com

Contact Person: Admissions Representative	Name: Blanca Ramirez
Email: blanca.ramirez@socalweldtrainingschool.org	Telephone: 805.486.8700
Vocational Program: Program IV Pipe Welder	Class Length: 830 hrs.
Cost of Program:	

Students Name:		Date:
Phone:		Email:
Home Address:		DOB:
Days available to attend class:		
Name of Program	Program IV Pipe Welder	
Program Description		
This program is designed to instruct students in pipe layout, welding safety, and welding with Shielded Metal Arc Welding process (SMAW), Gas Tungsten Arc Welding Process (GTAW) of pipe to meet ASME (vertical-up) and API (vertical-down) welding codes, and pipeline blueprints.		

Program Mission & Objectives	
This program prepares individuals to apply technical knowledge and skills to join or cut metal pipe. Formal and self-paced instruction includes: Shielded Metal Arc Welding (SMAW); Gas Tungsten Arc Welding (GTAW), and thermal cutting pipe. Related technical instruction also includes pipe layout, quality assurance and control, print reading, safety, and workplace skills.	
SOC	51-4121, Welders.
Graduation Requirements	To complete this program a student must complete all prescribed Class and earn a grade of "pass".
Final Tests or Exams	Yes. Students are evaluated through written and performance assessments.

Is this Program approved for Pell Grant	YES	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/> X
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Day Class Schedule						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Closed	9:00 am to 2:30 pm	9:00 am to 2:30 pm	9:00 am to 2:30 pm	Closed	9:00 am to 2:30 pm	9:00 am to 2:30 pm

Night Class Schedule						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Closed	6:00 pm to	6:00 pm to	6:00 pm to	6:00 pm to	Closed	Closed



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	9:30 pm	9:30 pm	9:30 pm	9:30 pm		
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Required Prerequisites				
Minimum Age: 18 Years			Physical Cond: Physically fit ability to lift 50 Lbs.	
Required Reading Level: 10 th grade			Required Math Level: 10 th grade	
Entrance Exam: YES		NO	X	Interview: A Mandatory Educational Plan Meeting.
Continue				
Dress Code:	Work boots, jeans, light weight long sleeve shirt preferred.			
Attendance policy of school and program	hrs. a week to complete 12 month program.			
Externship or Internship provided	YES		NO	X
Does the school offer job placement?	YES		NO	X
What are the average wages at placement for this training within the past year?		\$25-\$65/hour		
Number of Graduates that have graduated from this training program?				
How many of these graduates have been placed in occupations related to this training?				
Do you have a list of companies that have hired recent graduates? YES		X	NO	
List of companies that have hired graduates. See Instructor list available upon request.				
Do you have a list of graduates that could be contacted?	YES	X	NO	
List of students that graduated from this program. See Instructor list available upon request.				

Certification Fees are extra and are not included in our program fees.



Certification to be awarded at the completion of this program of study.

- American Petroleum Institute API 1104 6” 6G sch. 40 pipe certification
- American Society of Mechanical Engineers ASME Sec IX Pressure Vessel SMAW 2” Carbon steel sch. 80
- American Society of Mechanical Engineers ASME Sec IX Pressure Vessel SMAW 6” Carbon steel sch. 80
- American Society of Mechanical Engineers ASME Sec IX Pressure Vessel SMAW 2” Stainless Steel sch. 80
- American Society of Mechanical Engineers ASME Sec IX Pressure Vessel SMAW 2” Stainless Steel Tube
- American Society of Mechanical Engineers ASME Sec IX Pressure Vessel SMAW 2” Chromolly Steel Tube

Program IV Pipe Welder	
TOTAL CHARGES FOR CURRENT PERIOD OF ATTENDANCE	
ESTIMATED TOTAL CHARGES FOR THE ENTIRE EDUCATIONAL PROGRAM	

Program IV Breakdown by Class

Class ID	Subject	Hrs.	Cost
WLDG 1106	GTAW I (TIG The Basics Steel)	50 hrs.	
WLDG 1110	SMAW I (Arc The Puddle fundamentals)	40 hrs.	
WLDG 1111	SMAW II (Arc Advanced Plate 3G and 4G)	80 hrs.	
WLDG 1112	SMAW III (Arc Advanced Pipe Downhill)	10 hrs.	
WLDG 1113-A	SMAW IV (Expert Pipe Uphill)	80 hrs.	
WLDG 1113-B	SMAW IV (Expert Pipe Uphill)	80 hrs.	
WLDG 1114-A	GTAW V Expert Bevel Pipe)	90 hrs.	
WLDG 1114-B	GTAW V Expert Bevel Pipe)	90 hrs.	
WLDG 1120	FABRICATION III Fabrication with Pipe)	110 hrs.	
WLDG 1123	BLUEPRINT I (Introduction and Basics)	80hrs.	
	Total Program hours	830 hrs.	
	Total Program Fees		
	Registration Fees		
	Certification Fees		
	Books and Materials		
	STRF		
	Grand Total		



Students Weekly Attendance Schedule						
Sunday	Monday	Tuesday	Wednesdays	Thursday	Friday	Saturday
N/A	9:00 am to 2:30 pm	9:00 am to 2:30 pm	9:00 am to 2:30 pm	9:00 am to 2:30 pm	9:00 am to 2:30 pm	9:00 am to 2:30 pm
	5.0 hrs.	5.0 hrs.	5.0 hrs.	5.0 hrs.	5.0 hrs.	5.0 hrs.
N/A	6:00 pm to 9:30 pm	6:00 pm to 9:30 pm	6:00 pm to 9:30 pm	6:00 pm to 9:30 pm	N/A	N/A
	3.5 hrs.	3.5 hrs.	3.5 hrs.	3.5 hrs.		
Total hours per week						

In house financing option

Total Tuition Cost	
Down Payment	
Balance	
Total Months	
Monthly Payment	

Enrollment Process

1. Educational Plan Meeting

The educational plan meeting (EPM) is a meeting designed to help the student explore the job opportunities, in the area. This meeting is a 30 to 40 minute meeting held with the lead Instructor. The student will receive a shop tour where he will have the opportunity to witness the activities both in the shop and in the classroom. Together student and instructor will explore the job opportunities based in the individual personal preferences. Some of the topics discussed are,

- Individual desired Class
- Individual desired goals
- Local, and regional labor market for welders



- Different types of welding processes
- Basic skills needed to enter the desired industry
- Classes needed to complete to enter the desired industry
- Class Schedule
- Welding class cost

2. Orientation

The orientation meeting is scheduled to continue the enrollment process. In this meeting the student will receive a list of material needed, books, and supplies. A security deposit in the amount of \$275.00 will have to be paid in order to schedule the start date. After submitting payment, the student and the Admissions Representative will sign the student contract which will state the conditions of the student-school responsibilities.

3. Enrollment

Sign and date the agreement/enrollment form. The school will need to photo copy a government issued identification card to verify that the applicant is over the age of 18. Obtain a copy of high school diploma, GED or academic transcripts if enrolling in a program listed. A copy of the high school diploma, GED or academic transcripts must be obtained for SCWTTC records.

4. Safety Review First day of Class

Students are required to review and pass safety instructions in their entirety as part of the program safety training. Additional safety instructions will be presented by each instructor as to safe operation of welding gas manifolds, welding equipment, and various hand tools & power equipment. Upon completion of the safety training segment, each student is required to pass a comprehensive written safety examination and sign a written statement attesting to receipt of safety training and successful completion the safety test required by this program. A completed safety test must be



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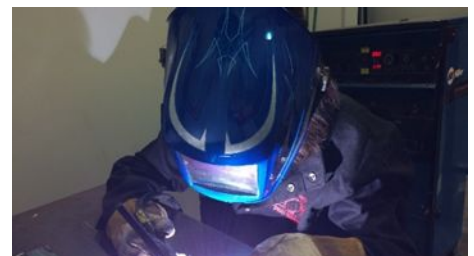
received prior to working in the Welding Lab -NO EXCEPTIONS. After successful completion of the safety examination the student will now be authorized to commence the welding program.

Program Description

This program is designed to prepare students for entry-level employment in pipe welding related employment with certification with Shielded Metal Arc Welding process (SMAW), Gas Tungsten Arc Welding Process (GTAW) of pressure vessel pipe to meet ASME (vertical-up) and API (vertical-down) this program also emphasizes in pipe layout, welding safety, welding codes, and pipeline blueprints.

Program Mission & Objectives

A comprehensive training program that prepares individuals to apply technical knowledge and skills cut and join metal pipe. Formal and self-paced instruction includes: Shielded Metal Arc Welding (SMAW); Gas Tungsten Arc Welding (GTAW), and thermal cutting pipe. Related technical instruction also includes pipe layout, quality assurance and control, print reading, safety, and workplace skills.





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Class ID: WLDG1106

Class title: Gas Tungsten Arc Welding (TIG) I Weldments on Steel

Class description: A beginning class which emphasizes in the fundamentals of Gas Tungsten Arc Welding (GTAW) process. The class examines the types of equipment used, and different techniques involved, in (GTAW) process with steel in different joint configurations.

Class Objectives: Students will examine and assess correct safety procedures and practices when using Gas Tungsten Arc Welding. Proper base metal preparation techniques and weld joint fit-up are emphasized.

Lecture: The Students will be exposed to common welding terminology and theory as they relate to Gas Tungsten Arc Welding process of steel.

Lab: Students completing this class will be capable of welding all the basic joints i.e. butt, lap, tee etc. in all positions using mild steel coupons.

Prerequisite: None

Class start date: Continuous Enrollment

Class length: 48 Hours

Instructor: Jesse Guzman

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Class ID: WLDG1110

Class title: Shielded Metal Arc Welding (Arc) I Fundamentals of Arc Welding

Class description: A beginning class in a comprehensive welding program. Emphasis on types of welding, kinds of machines, differences in current, and types of electrodes used. Introduction to and basic techniques on, arc welding in the flat position. Basic techniques in arc welding including how to set current and fine settings on power sources.

Class objectives: The student will select electrodes and amperage settings for various thicknesses of materials and welding positions; define principles of arc welding; and interpret electrode classifications. The student will perform SMAW operations in various positions using selected electrodes and different joint designs.

Lecture: Safety rules and regulations. Safety with welding related tools Oxyacetylene cutting safety. Arc welding safety Maintenance on both oxyacetylene and arc welding equipment Joint design. Demonstrates good arc bead pattern with various electrodes.

Lab: The student will be able to demonstrate safety on arc welding equipment. Be able to demonstrate welding in the flat position; and have the knowledge to select correct electrode. He will have the ability to select correct heat settings on welding machines and be able to demonstrate good bead patterns on plates.

Prerequisite: None

Class start date: Continuous Enrollment

Class length: 32 hours

Instructor: Jesse Guzman

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Class ID: WLDG1111

Class title: Shielded Metal Arc Welding (Arc) II Plate Welding

Class description: Advanced techniques in Shielded Metal Arc Welding in the horizontal, vertical and overhead positions; also correct setting of current and voltage on power sources. Emphasis is also on proper electrode striking, and motions to be used when welding in all positions.

Class objectives: Students completing this class will be able to successfully complete fillet welds, and groove with backing strip in the vertical and overhead positions with ER7018 welding electrodes.

Lecture: This class provides the knowledge to Identify the principles of arc welding; describe arc welding operations of fillet and groove joints; explain heat treatments of low alloy steels; and explain weld size and profiles; prepare test plates; perform fillet welds in the overhead position; perform bevel groove welds with backing plates in various positions.

Lab: The student will perform basic layout and fabrication skills to produce welded metal samples. Read and interpret engineering drawings to American Welding Society standards. Use welding process and procedure applications. Apply basic metallurgy knowledge to fabrication processes. Perform basic set-ups and operations for SMAW process.

Prerequisite: Successfully completed class #WLDG1110

Class start date: Continuous Enrollment

Class length: 80 Hours

Instructor: Jesse Guzman



Location: 1641 Pacific Ave. unit #94 Oxnard CA 93033



Class ID: WLDG1112

Class title: Shielded Metal Arc Welding (Arc) III Downhill Pipe

Class description: An introduction to welding of pipe using the shielded metal arc welding process (SMAW), including electrode selection, equipment setup, and safe shop practices. Emphasis on weld positions 1G, 2G, 5G, and 6G using ER6010 welding electrode.

Class objectives: Students completing this Class should be proficient in welding 6" Schedule # 40 wall pipe with an E-6010 root, fill, and cap. This being done in the horizontal 2-G weld position Describe equipment and required pipe preparation and perform 1G, 2G, 5G, and 6G welds.

Lecture: Examine SMAW equipment and required pipe joint preparation, to perform 1G, 2G, 5G, and 6G welds, in the uphill weld progression.

Lab: Students completing satisfactorily will have the skills necessary to complete industry standards quality welds in the 2G, 3G, 5G, and 6G welding positions, and downhill progression with ER6010 welding electrode. Also have the knowledge to set up welding equipment, select the proper welding electrode for each joint configuration.

Prerequisite: Successfully completed Class #WLDG1111

Class start date: Continuous Enrollment

Class length: 120 Hours



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Class ID: WLDG1113-A

Class title: Shielded Metal Arc Welding (ARC) IV Pipe Uphill

Class description: This Class covers the welding disciplines students will need in welding, safety, proper techniques of the SMAW- Stick process, and electrode selection for welding pipe to meet ASME (vertical-up) welding code.

Class objectives: A students completing this class will be proficient in welding six inch schedule #80 pipe in the 6G 45 degree fixed position vertical up progression with mild steel ER-6010 and ER-7018 electrode. Also have the required skills necessary to pass the certification test of ASME section IX.

Lecture: This class reviews theory, joint configuration, pipe layout joint geometry, and types of pipe joints.

Lab: Students will be welding with E6010 and E7018 electrodes. This class includes blueprint instruction and pipe layout for pipe fitters and welders. Completion of this class prepares the student with the skills for taking the 6G weld test to ASME and AWS standards

Prerequisite: Successfully completed class #WLDG1112

Class start date: Continuous Enrollment

Class length: 240 Hours



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Instructor: Jesse Guzman

Location: 1641 Pacific Ave. unit #94 Oxnard CA 93033



Class ID: WLDG1113-B

Class title: Shielded Metal Arc Welding (ARC) IV Pipe Uphill

Class description: This class covers the welding disciplines students will need in welding, safety, proper techniques of the SMAW- Stick process, and electrode selection for welding pipe to meet ASME (vertical-up) welding code.

Class objectives: A students completing this class will be proficient in welding six inch schedule #80 pipe in the 6G 45 degree fixed position vertical up progression with mild steel ER-6010 and ER-7018 electrode. Also have the required skills necessary to pass the certification test of ASME section IX.

Lecture: This class reviews theory, joint configuration, pipe layout joint geometry, and types of pipe joints.

Lab: Students will be welding with E6010 and E7018 electrodes. This class includes blueprint instruction and pipe layout for pipe fitters and welders. Completion of this class prepares the student with the skills for taking the 6G weld test to ASME and AWS standards

Prerequisite: Successfully completed class #WLDG1112

Class start date: Continuous Enrollment



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Class length: 240 Hours

Instructor: Jesse Guzman

Location: 1641 Pacific Ave. unit #94 Oxnard CA 93033



Class ID: WLDG1114-A

Class title: Gas Tungsten Arc Welding (Tig) Bevel Pipe

Class description: This class introduces the student to the principles and practices of gas tungsten arc welding (GTAW), on various welding positions including vertical, horizontal, and 6G weldments on beveled carbon steel pipe, with emphasis on schedule 40.

Class objectives: Students will examine and assess correct safety procedures and practices when using Gas Tungsten Arc Welding, to weld groove and fillet weldments on carbon steel pipes. Proper base metal preparation techniques and weld joint fit-up are emphasized.

Lecture: Students will be evaluated to common welding terminology and theory as they relate to Gas Tungsten Arc Welding of carbon steel pipe.

Lab: : Students completing satisfactorily will have the skills necessary to complete industry standards quality welds in the 2G, 3G, 5G, and 6G welding positions, uphill progression with GTAW welding process. Also have the knowledge to set up welding equipment, for each joint configuration, and position.

Prerequisite: Successfully completed class #WLDG1109

Class start date: Continuous Enrollment

Class length: 180 Hours

Instructor: Jesse Guzman

Location: 1641 Pacific Ave. unit #94 Oxnard CA 93033



Class ID: WLDG1114-B

Class title: Gas Tungsten Arc Welding (Tig) Bevel Pipe

Class description: This class introduces the student to the principles and practices of gas tungsten arc welding (GTAW), on various welding positions including vertical, horizontal, and 6G weldments on beveled carbon steel pipe, with emphasis on schedule 40.

Class objectives: Students will examine and assess correct safety procedures and practices when using Gas Tungsten Arc Welding, to weld groove and fillet weldments on carbon steel pipes. Proper base metal preparation techniques and weld joint fit-up are emphasized.

Lecture: Students will be evaluated to common welding terminology and theory as they relate to Gas Tungsten Arc Welding of carbon steel pipe.

Lab: : Students completing satisfactorily will have the skills necessary to complete industry standards quality welds in the 2G, 3G, 5G, and 6G welding positions, uphill progression with GTAW welding process. Also have the knowledge to set up welding equipment, for each joint configuration, and position.

Prerequisite: Successfully completed Class #WLDG1109

Class start date: Continuous Enrollment

Class length: 180 Hours

Instructor: Jesse Guzman

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Class ID: WLDG1120

Class title: Fabrication III (Fabrication with pipe)



Class description: This Class reviews the theory and practice of layout and fitting pipe. The student will learn the process of fabricating, and welding pipe joints of steel through a series of competency-based exercises.

Class objectives: This Class covers the theory and practice of layout and pipe fitting. Students will learn the process of fabricating steel pipe joints through a series of competency-based exercises. These exercises will be done on paper and/or pipe using instruction and practice fitting information.

Lecture: Students will review methodology of reproducing fabricated components with pipe from a blueprint or drawing. Methods of measuring, inspecting, geometry, tolerance requirements, and final finish of joints.

Lab: Student will demonstrate the safe use of shop equipment and hand tools. Set-up, perform and use equipment. Demonstrate the correct procedure of measuring and the use of layout tools. Demonstrate the procedures for fabricating fittings. Identify and list the various types of brackets that apply. Identify variations in pipe schedules and weight, and fabricate templates.

Prerequisite: Successfully completed class #WLDG1119

Class start date: Continuous Enrollment

Couse length: 120 Hours

Instructor: Jesse Guzman

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Class ID: WLDG1123

Class title: Blueprint reading I (introduction and basics)

Class description: An introductory Class to develop basic skills in reading blueprints. Introduces the student to various types of working sketches, and drawings for fabricating assemblies for manufacturing applications.

Class objectives: Upon completion of this Class, the student will be able to, Identify common welding and drawing terms on a typical welding part drawing. Correctly interpret information given in drawing. Visualize objects by applying orthographic drawing principles. Calculate missing part dimensions. Identify tolerance requirements and determine part material requirements.

Lecture: This Class provides the knowledge to identify the principles of common terms on a typical part drawing. Correctly interpret information given in a drawing. Visualize objects by applying orthographic drawing principles. Calculate missing part dimensions.

Lab: Student will demonstrate the knowledge, and understanding of shop drawings and sketches. Have the ability to interpret drawings. Demonstrate the correct procedure to calculate dimensional measurements and the use of sketching tools. Demonstrate the procedures fabricate templates.

Prerequisite: Successfully completed Class #WLDG1110

Class start date: Continuous enrollment

Class length: 80 Hours

Instructor: Jesse Guzman



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