



# Course Catalog

Effective January 1st, 2019 through December 31st, 2019

California Welding Institute LLC

Course Catalog

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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.

## GENERAL

### Our Mission & Objectives

California Welding Institute is a dedicated occupational skills center, developing a highly skilled workforce in the field of welding to help breach the increasing gap found in the industry. Time is of the essence, and therefore, the company has developed a unique and specialized training program designed to bring students to the skill level needed to become a certified welder in a short time, producing a high quality, skilled workforce capable of meeting the industry's weld quality standards.

### Our History

The welder training program was started in 2007 by George Rolla, founder and CEO of California Welding Institute. George graduated in 1975 from Algonquin College with a certificate in welding, and he's been dedicated to welding ever since. He started his welding career as a pipe welder in Canada, then embarked on an adventurous business trip to the arctic, where he performed maintenance on equipment as a welder. From there, he moved to North Dakota, where he worked as a pipe welder in the petrol-chemical industry. Finally, George reached his dream home, California, where he worked as a welder in the gas industry and in the construction industry. Throughout his career, George has also been dedicated to training welding personnel for contractors he worked for. In 2006, George became an American Welding Society Certified Welding Inspector and a Certified Welding Educator, and expanded his business operations to include consulting, training, certification and inspection services. In 2007, George, who had been actively involved in the American Welding Society as an Executive Board Member of the Los Angeles/Inland Empire Section, saw the

need to develop a new generation of highly skilled welders, who are very much lacking in the industry, worldwide, and started the welder training and certification program that, to this day, has a unique and very successful training method.

### Faculty

Our staff is composed of two faculty members, a chief academic instructor and an instructor. Our staff has over 50 years of experience combined. The Chief Academic Instructor is an AWS Senior Certified Welding Inspector, an AWS Certified Welding Educator and a Certified Welder. Our instructor is an AWS Certified Welding Inspector, AWS Certified Welding Educator and a Certified Welder.

### Affiliations

California Welding Institute is an American Welding Society Educational Institution Member, and is also affiliated with Advanced Weldtec, Inc, a welder testing facility which is an approved Welder Testing Agency for the Los Angeles Dept. of Building & Safety (LADBS).

### Accreditation & Status

California Welding Institute is a private institution, approved to operate by the Bureau for Private Postsecondary Education (BPPE). The Bureau's approval means that the institution has complied with the standards set forth by the Bureau. The bureau does not endorse any programs and approval does not mean that the institution exceeds minimum state standards.

Per Ed. Code §94909(a), "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](http://www.bppe.ca.gov), toll-free telephone number (888) 370-7589 or by fax (916) 263-1897."

Per Ed. Code §94909(a), "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 toll-free or by completing a complaint form, which can be obtained on the bureau's internet web site [www.bppe.ca.gov](http://www.bppe.ca.gov)."

California Welding Institute has no pending petition in bankruptcy, is not operating as a debtor in possession, has not filed a petition within the preceding five years, or has not 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. Sec. 1101 et seq.).

California Welding Institute is a non-accredited institution and does not offer a degree program; licensure is not required in the welding trades.

### Program Description and Training Method

California Welding Institute offers Welding courses, Professional Development courses, and Pre-Test Practice/Training/Training Sessions, and One Day Welding Classes.

All classes are held at 32081 Corydon St, Lake Elsinore, CA 92530.

**Welding Career Course Bundles and Welding Courses** are designed to prepare students for employment in specific industries requiring welding skills. The courses are designed to help students develop the skills level needed to become a certified welder. Having a welder certification has become one of the most important elements for obtaining a good paying job as a welder in any industry. Training is all hands-on. Students are lectured while welding. Each course is broken down into modules. Each module consists of an exercise that the student must successfully perform to move on the next module and progress through the course. Welding courses vary in duration.

**Professional Development Courses** are designed to teach welding related subjects to further knowledge and skills

of professionals in the field of welding, such as welding personnel and quality control personnel. These are lecture-based classes that do not involve hands-on welding. These courses vary in duration; most of the courses are less than 6 days long.

**One-Day Welding Classes** are designed for hobbyists and those who want to take welding lessons designed specifically to their needs.

**Pre-Test Practice/Training Sessions** are designed for professional welders that want to practice with instruction to improve skills before taking a certification test. Each Pre-Test Practice/Training/Training Session is one-day long and consists of welding a mock test while an instructor assists to improve the technique.

### Class size

For the **Welder Training Courses & Career Course Bundles**, the maximum class size is 12 students per instructor. For new students, the maximum class size is 2 students per instructor, for the first two classes.

For **Professional Development Courses**, the maximum class size is 20 attendees.

For **One-Day Welding Classes and for Pre-Test Practice/Training Sessions**, the maximum class size is 12 students per instructor.

### Notice Concerning Transferability of Credits and Credentials Earned at Our Institution

The transferability of credits you earn at California Welding Institute is at the complete discretion of an institution to which you may seek to transfer. Acceptance of the Course Completion Certificate you earn in Welder Training Courses, Career Course Bundles, and Professional Development Courses, is also at the complete discretion of the institution to which you may seek to transfer. If the Certificates 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 meets your educational goals. This may include contacting an institution to which you may seek to transfer after attending California Welding Institute to determine if your certificate will transfer.

## Facilities & Equipment

The facility is approximately 2,000 sq. ft., located at 32081 Corydon St, Lake Elsinore, California, in a one acre of land. All classes are held in this location.

It has a lecture room that accommodates up to 20 students, twelve workstations for welding and two workstations for oxyacetylene cutting & welding.

Each workstation has a welding machine and welding prop set up for welding in all positions.

The lab also features a torch-cutting machine, as well as metal shears and saws that students will learn to use to cut metal needed throughout the course.

## Languages

All courses are taught in English. Applicants must have completed 10th grade of high school education. For international students, official TOEFL score report of 450 minimum (paper-based test) or 45 minimum (internet-based test); or IELTS score report of 4.5 is needed. English language services (ESL) are not provided by California Welding Institute.

## Employment Assistance

California Welding Institute has job postings and links on the website that students can browse through; however, California Welding Institute does not offer job placement.

## Student Services

California Welding Institute offers the following student services:

- (1) Admissions
- (2) Records

- (3) Career advise
- (4) Financial Aid
- (5) Library

California Welding Institute does not provide international student services (such as obtaining a student visa), job placement, housing and meals services, distance education courses or any other type of services that were excluded from the list above.

The following hotels are located within 5 miles of the facility: Quality Inn Lake Elsinore and Holiday Inn Express & Suites Lake Elsinore. Students are responsible for making their own accommodations. Prices per hotel vary. In general, the cost of a hotel is \$100 per night. Hotel information, including prices, can be found on the internet.

California Welding Institute has no dormitory facilities under control, does not provide any type of living accommodations, and has no responsibility to find or assist a student in finding housing.

## Library

Students have access to California Welding Institute's library during training days only. To check out a publication, students must request permission from the Operations/Administrative Manager or Chief Academic Instructor. Publications are for use only at the library and may not be taken out of the library. Students may not make copies of any pages of any publication. For a copy of the Library Catalog & Policy, please ask one of our faculty members.

## Admissions

Individuals who meet the following criteria are eligible to enroll in the **Welder Training Courses & Career Course Bundles, One-Day Welding Classes, Pre-Test Practice/Training Sessions, and Professional Development Courses:**

- (1) Must have high school diploma or its equivalent, or
- (2) Must have passed one of the following Ability-to-Benefit Exams:
  - a. Wonderlic Basic Skills Test (WBST) and achieve a passing score of 200 for the Verbal test and 210 for the Quantitative test,





- b. ACCUPLACER tests and achieve a passing score of 55 in Reading and Comprehension, 60 in Sentence Skills and 34 in Arithmetic.
- (3) Must be at least 16 years of age. If under age of 18, parent/guardian written consent is required.

In addition to the general requirements listed above, students enrolling in the **Welder Training Courses & Career Course Bundles, One-Day Welding Classes, and Pre-Test Practice/Training Sessions**, must meet the following requirements to be eligible for enrollment in welding courses:

- (1) Must have a good close-up vision, at a distance of 16 inches, with or without corrective lenses.
- (2) Must have a steady hand
- (3) Must have dexterity with the right hand, left hand, or both
- (4) Must have good hand to eye coordination

California Welding Institute does not accept any credits earned at other institutions or through challenge examinations and achievement tests. This institution has not entered into an articulation or transfer agreement with any other college or university. It only accepts welder qualification test records from its affiliate, Advanced Weldtec, Inc to satisfy course prerequisites.

## Academic Records

California Welding Institute keeps academic records permanently. Students who need to obtain academic records must contact the office to obtain a copy of the Training Records Policy and Procedure.

## Attendance Requirements

For the **Welder Training Courses & Career Course Bundles**, students must adhere to the following class attendance requirements:

- (1) Welding Classes are held every Tuesday and Thursday, from 8 AM to 4 PM, unless it falls on a holiday.

- (2) Students must attend class as scheduled on every Tuesday and Thursday from 8 AM to 4 PM (no exceptions).
- (3) Students who miss class are not allowed to reschedule the missed class. Missed classes are forfeited, no credits given for later use.
- (4) Students are allowed to miss 3 classes in total. After missing the 3rd class, student will be permanently dismissed from the course without any type of refund.
- (5) Students who do not finish the course in the given amount of time (as specified in each course description) will have the option to enroll in One-Day Welding Class(es) to complete the course.

For the **One-Day Welding Classes, Pre-Test Practice/Training Session, and Professional Development Courses**, students must adhere to the following class attendance requirements:

- (1) Students must attend on the scheduled date
- (2) Students are not allowed to reschedule once given and accepted a date
- (3) Missed classes are forfeited, no credits given for later use.

**Leave of absence policy:** California Welding Institute does not offer leave-of-absence. Students who withdraw from the course enrolled in are not allowed to reschedule missed classes. Missed classes are forfeited, no credits given for later use.

## Class Equipment & Materials

For the **Welder Training Courses & Career Course Bundles, One-Day Welding Classes and Pre-Test Practice/Training Session** California Welding Institute provides students with workstations and equipment. Students are required to purchase welding rod and material for certain courses, as specified in the course description.





Students are responsible for purchasing their own welding gear and hand tools. A list is provided for each course.

For Professional Development Courses, study material (books) must be obtained if required for the class.

### Probation and Dismissal

Due to the way the program is structured, students will not be placed on probation; however, we reserve the right to dismiss any student from the course for not strictly abiding by the Code of Conduct, Class Attendance Requirements, Safety Procedures or any other section of this Catalog.

### Code of Conduct

California Welding Institute established procedures for the imposition of discipline on students in accordance with the requirements for due process of the federal and state law and regulations.

Students will be immediately dismissed for any of the following:

1. Causing, attempting to cause, or threatening to cause physical injury to another person.
2. Possession, sale or otherwise furnishing any firearm, knife, explosive or other dangerous object, including, but not limited to, any facsimile firearm, knife or explosive.
3. Unlawful possession, use, sale, offer to sell, or furnishing, or being under the influence of, any controlled substance listed in Chapter 2 (commencing with Section 11053) of Division 10 of the California Health and Safety Code, an alcoholic beverage, or an intoxicant of any kind; or unlawful possession of, or offering, arranging or negotiating the sale of any drug paraphernalia, as defined in California Health and Safety Code Section 11014 .5 . It is also unlawful under federal law, to possess, use, sell, offer to sell, furnish or be under the influence of any controlled substance, including medical marijuana.

4. Committing or attempting to commit robbery or extortion.
5. Causing or attempting to cause damage to California Welding Institute's property or to private property on the facility. Student is responsible for replacing or paying for damaged property, such as equipment, parts, or any other damages caused, whether intentionally or not.
6. Stealing or attempting to steal property on the premises, or knowingly receiving stolen property on the premises.
7. Willful or persistent smoking in any area on the premises. No tobacco (including chewing tobacco) or e-cigarettes of any type, including vapors.
8. Committing sexual harassment as defined by law
9. Engaging in harassing or discriminatory behavior toward an individual or group based on ethnic group identification, national origin, religion, age, sex or gender, race, color, ancestry, sexual orientation, physical or mental disability, or any characteristic listed or defined in Section 11135 of the Government Code of any characteristic that is contained in the prohibition of hate crimes set forth in subdivision (1) of section 422 .6 of the Penal Code, or any other status protected by law .
10. Willful misconduct which results in injury or death to a student or to personnel or which results in cutting, defacing, or other injury to any real or personal property owned by California Welding Institute or on the premises.
11. Disruptive behavior, willful disobedience, habitual profanity or vulgarity, or the open and persistent defiance of the authority of, or persistent abuse of, personnel.
12. Furnishing false information to California Welding Institute, for purposes such as admission, enrollment, or alteration of official documents .
13. Dishonesty; forgery; alteration or misuse of documents, records or identification; or knowingly furnishing false information to California Welding Institute.



14. Unauthorized entry upon or use of the facility and equipment.

15. Lewd, indecent or obscene conduct on the premises.

16. Engaging in expression which is obscene; libelous or slanderous; or which so incites students as to create a clear and present danger of the commission of unlawful acts on college premises, or the violation of lawful administrative procedures, or the substantial disruption of the orderly operation of California Welding Institute.

17. Persistent, serious misconduct where other means of correction have failed to bring about proper conduct .

18. Use, possession, distribution or being under the influence of alcoholic beverages, controlled substance(s) or poison(s).

A . In accordance with Section 67385 .7 of the Education Code and in an effort to encourage victims to report assaults, the following exception will be made: The victim of a sexual assault will not be disciplined for the use, possession, or being under the influence of alcoholic beverages or controlled substances at the time of the incident if the assault occurred on property.

19. Bringing pets inside the facility. Service animals are allowed on the property and must be kept at least 30 feet away from the building.

20. Flyers or any other literature may not be placed on anywhere on the premises . The riding/use of bicycles, motorcycles, or motorized vehicles (except for authorized police bicycles or motorized vehicles) is limited to thoroughfares normally used for vehicular traffic . In addition, the riding/use of all types of skates, skateboards, scooters, or other such conveyances is prohibited on property.

21. The presence inside the facility of non-enrolled individuals is prohibited without the approval of a faculty member.

### Student Grievance Process

The purpose of the Student Grievance Procedure is to provide a means by which a

student may pursue a complaint for an alleged violation of policy concerning instruction. A student has 3 calendar days from the date of the incident giving rise to the grievance to initiate the informal consultation process. Student must contact the Chief Academic Instructor California Welding Institute to resolve the concern.

### Safety Procedures

For the **Welder Training Courses & Career Course Bundles, One-Day Welding Classes and Pre-Test Practice/Training Session**, all students must adhere to the following safety procedures:

1. Students must sign in and sign out each time they attend class
2. An OSHA approved welding helmet must be worn when welding.
3. Welding helmet must have proper filter lens shade (minimum shade #9 when welding).
4. Safety Glasses must be worn at all times.
5. Earplugs must be worn when welding, grinding or using a torch.
6. #5 shade safety glasses or goggles must be worn when using a gas torch.
7. Face shields must be worn when grinding.
8. All grinders must have guards.
9. Student must be instructed for the safe use of hand held grinders, other power tools & equipment before using these tools and equipment.
10. If student notices anything unsafe (including but not limited to welding on the tables and props) or someone else conducting themselves in an unsafe manner or performing work in an unsafe manner, it is everyone's responsibility to ask that person to stop work at once, and notify the instructor immediately.
11. Must wear cotton welding hat under helmet (no baseball caps).



12. Must wear proper welding jacket (leather, combination leather & cotton, or fire retardant cotton).

13. Must wear 100% cotton pants (jeans ok, no Dickies type polyester clothing).

14. Must wear safety toe work boots.

15. Must wear leather welding gloves when welding.

16. Must wear insulated leather work gloves whenever grinding, using a gas torch, using any tools or handling metal.

17. No short sleeves shirts allowed in facility.

19. No shorts allowed in facility.

20. No running shoes, sneakers or sandals allowed.

21. No earphones or earbuds of any type are allowed at any time during training.

22. No audio or audio-visual recording of classes is permitted

In addition, students must read ANSI/AWS Z49.1 Safety In Welding & Cutting and Allied Processes before starting the course. A free copy of this publication is provided by the American Welding Society (AWS) and can be found here: <https://pubs.aws.org/t/FreeDownloads>

Students will be required to read this publication by the first day of class.

## Enrollment Procedure

Students can enroll for **Welder Training Courses & Career Course Bundles, One-Day Welding Classes, Pre-Test Practice/Training Sessions, the Professional Development Courses** any time during the year.

Course are offered year-round.

The start date will be scheduled at the time of enrollment.

Students must enroll for all courses online at [www.socalwelding.com](http://www.socalwelding.com)

## Fees

The following fees are subject to change without notice. At time of payment, students will be charged in accordance to the following fee schedule:

- (1) All courses have a non-refundable registration fee of \$250
- (2) All courses have a non-refundable student tuition recovery fund fee of \$0
- (3) All welding courses and bundles have a non-refundable \$250 fee for textbook and online material access
- (4) Professional Development Courses have non-refundable required publications fee (fee varies per course. see course description).
- (5) Welding rod 10 lb bundle non-refundable fee: \$31.80
- (6) Welding wire spool non-refundable fee: \$100
- (7) Material bundle non-refundable fee: \$50  
Bundle descriptions:
  - a. Bundle of 10 gage aluminum consists of 10 sheets cut to specification for course
  - b. Bundle of 14 gage aluminum consists of 20 sheets cut to specification for course
  - c. Bundle of 18 gage aluminum consists of 30 sheets cut to specification for course
  - d. Bundle of 10 gage galvanized steel consists of 10 sheets cut to specification for course
  - e. Bundle of 14 gage galvanized steel consists of 20 sheets cut to specification for course
  - f. Bundle of 18 gage galvanized steel consists of 30 sheets cut to specification for course
  - g. Bundle of 10 gage carbon steel consists of 10 sheets cut to specification for course



- h. Bundle of 14 gage carbon steel consists of 20 sheets cut to specification for course
- i. Bundle of 18 gage carbon steel consists of 30 sheets cut to specification for course
- j. Bundle of 10 gage stainless steel consists of 8 sheets cut to specification for course
- k. Bundle of 14 gage stainless steel consists of 14 sheets cut to specification for course
- l. Bundle of 18 gage stainless steel consists of 20 sheets cut to specification for course

(8) For specific course fees, see course description.

## Cancellation & Refund Policy

### Student's Right to Cancel

#### Refund Policy:

Students can obtain a full refund of charges paid through attendance at the first class session or the seventh day after enrollment, whichever is later.

If the student has received federal student financial aid funds, the student is entitled to a refund of moneys not paid from federal student financial aid program funds.

#### Cancellation Procedure:

Cancellations must be made in person during class hours and student must provide a written cancellation notice, signed and dated.

#### The following fees are not refundable:

- (1) Registration
- (2) Student Tuition Recovery Fund
- (3) Welding Rod bundle
- (4) Welding Wire Spool
- (5) Material bundle
- (6) Books and online material access
- (7) Required publications

### Student Tuition Recovery Fund (STRF)

In accordance with 5 CCR §76215(a), "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 of 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

2. Your total charges are paid by a third party, such as an employer, government program or other payer, and you have no separate agreement to repay the third party."

In accordance with 5 CCR §76215(b), "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 program attending certain schools regulated by the Bureau for Private Postsecondary Education.

You may be eligible for STRF if you are a California resident or are enrolled in a residency program, prepaid tuition, paid 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 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 or the 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 judgment 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.

### Financial Aid & Scholarships

#### (1) Student Loans:

California Welding Institute does not offer student loans.

If a student obtains a loan to pay for the course(s), the student will have to repay the full amount of the loan plus interest, less the amount of any refund, and if the student receives federal student financial aid funds, the student is entitled to a refund of the moneys not paid from federal financial aid funds, in accordance to the cancellation and refund policy stated in this catalog.

#### (2) Veteran's benefits (such as the GI Bill):

California Welding Institute does not accept the GI Bill and other types of veteran benefits.

(3) Financial aid: California Welding Institute does not participate in any federal financial aid programs, such as FAFSA.

#### (4) Scholarships:

Student enrolled or wishing to enroll can apply for the following scholarships offered by the American Welding Society:

[AWS Welder Training Scholarship](#)

[Praxair-AWS Scholarship Application](#)

[AWS LA/IE Section 08 Gene E. Lawson/George Rolla Scholarship Application](#)

[AWS Los Angeles/Inland Empire Section Scholarship Application](#)

A link to each of the scholarship applications can be found on our website.

## Courses

California Welding Institute offers Welding Courses, Welding Career Course Bundles, which is a series of welding courses bundled together, One-Day Welding Classes, Pre-Test Practice/ Training/Training Sessions and Professional Development Courses.

The following is the training schedule for Welding Courses, Welding Career Course Bundles, One-Day Welding Classes, and Pre-Test Practice/ Training Sessions:

Class days: Tuesday and Thursday

Time: 8 AM to 4 PM

Class schedule:

8 AM to 8:20 AM - Sign-in & Set-up

8:20 AM to 10:30 AM - Training

10:30 AM to 10:40 AM - Break

10:40 AM to 12 PM - Training

12 PM- 12:45 PM - Lunch Break

12:45 PM to 2:30 PM - Training

2:30 PM to 2:40 PM - Break

2:40 PM to 3:45 PM Training

3:45 PM to 4 PM - Clean up & Sign out

For One-Day Welding Classes and Pre-Test Practice/Training Sessions classes may be scheduled on another day of the week, upon availability

For Professional Development Courses, the class days and schedule varies throughout the year. For current schedule, visit our website [www.socalwelding.com](http://www.socalwelding.com)

### Welding Career Course Bundles

Career course bundles are a series of courses and certification tests grouped together in a bundle.



### BUNDLE 1 - ALL AROUND WELDER: STRUCTURAL AND PRESSURE PIPING

This course fumble is the foundation for a more versatile welding career.

**Description:** This career builder bundle includes the following courses, which must be completed in the sequence shown:

- 1) W101 - SMAW AWS D1.1/L.A City Welder Certification Structural Steel Plate
- 2) W102 - FCAW AWS D1.1/L.A City Welder Certification Structural Steel Plate
- 3) W201 - SMAW ASME Section 9 AWS B2.1 Basic Pipe Welding Course
- 4) PDH-LAWC - L.A City Welder Certification Written Exam Preparation Class

**Objective:** The objective of this career builder bundle is for students who want to develop skills for a more versatile welding career. Successful completion of this bundle gives students the skills necessary for employment in structural welding and pipe welding and be well versed in two different welding processes (SMAW and FCAW).

**Certifications:** At the end of each course included in the bundle, students will take the corresponding certification test, as follows: AWS D1.1 Structural Steel certification with SMAW and FCAW, ASME Section IX Certification. L.A City Written Welder Certification Written Exam (administered by the City of Los Angeles Department of Building and Safety).

#### Student Evaluation and Course Completion:

This bundle consists of 4 courses. Successful completion of each course requires passing a certification test.

**Occupational Classification Code:** 51-4120 Welding, Soldering and Brazing Workers

**Bundle 1 Duration:** up to 49 classes, 298 hours of welding training

**Registration fee:** \$250

**Textbook fee:** \$250

**Bundle 1 Fee:** \$12,311

**Welding Rod Bundle** (purchased as needed throughout the course): \$31.80 per 10 lb bundle

**Welding Wire** (purchased as needed throughout the course): \$100 per spool

**Total charges for period of attendance for Bundle 1:** \$250+\$250+\$12,311= \$12,811

**Estimated schedule of total charges for Bundle 1:** \$12,811+ 10\*\$31.80+\$100= \$13,229

### BUNDLE 2 - IRONWORKER WELDING CAREER

**Description:** This career builder bundle includes the following courses, which must be completed in the sequence shown:

- 1) W101 - SMAW AWS D1.1/L.A City Welder Certification Structural Steel Plate
- 2) W102 - FCAW AWS D1.1/L.A City Welder Certification Structural Steel Plate
- 3) W105 - FCAW AWS D1.8/Welder Certification Structural Steel Seismic Application
- 4) PDH-LAWC - L.A City Welder Certification Written Exam Preparation Class

**Objective:** The objective of this career builder bundle is to give students the skills necessary for employment in structural welding, including welding in moment connections (Seismic applications) and fabrication.

**Certifications:** At the end of each course included in the bundle, students will take the corresponding certification test, as follows: AWS D1.1 Structural Steel certification with SMAW and FCAW, and AWS D1.8 Seismic Supplement with FCAW.L.A City Written Welder Certification Written Exam (administered by the City of Los Angeles Department of Building and Safety).

#### Student Evaluation and Course Completion:

This bundle consists of 4 courses. Successful completion of each course requires passing a certification test.

**Occupational Classification Code:** 51-4120 Welding, Soldering and Brazing Workers

**Bundle 2 Duration:** up to 49 classes, 298 hours of welding training.

**Registration fee:** \$250

**Textbook fee:** \$250

**Bundle 2 Fee:** \$12,311

**Welding Rod Bundle** (purchased as needed throughout the course): \$31.80 per 10 lb bundle  
**Welding Wire** (purchased as needed throughout the course): \$100 per spool

**Total charges for period of attendance for**

**Bundle 2:** \$250+\$250+\$12,311= \$12,811

**Estimated schedule of total charges for Bundle 2:** \$12,811+ 10\*\$31.80+\$100= \$13,229

### BUNDLE 3 - PROCESS PRESSURE PIPING WELDER





**Description:** This career builder bundle includes the following courses, which must be completed in the sequence shown:

- 1) W201 - SMAW ASME Section IX AWS B2.1 Basic pipe welding course - all uphill
- 2) W203 - GTAW/SMAW Combo Welder Basic ASME Section IX, AWS B2.1 or W203 - GTAW/FCAW-G
- 3) W206 - Pipe Layout and Fabrication

**Objective:** The objective of this career builder bundle is to give students the skills necessary for employment in process pressure piping such as oil refineries, chemical plants or other processing plants.

**Certifications:** At the end of each course included in the bundle, students will take the corresponding certification test in accordance to ASME Section IX Certification.

**Student Evaluation and Course Completion:**

This bundle consists of 3 courses. Successful completion of each course requires passing a certification test.

**Occupational Classification Code:** 51-4120

Welding, Soldering and Brazing Workers

**Bundle 3 Duration:** up to 44 classes, 264 hours of welding training.

**Registration fee:** \$250

**Textbook or online material fee:** \$250

**Bundle 3 Fee:** \$13,960

**Welding Rod Bundle** (purchased as needed throughout the course): \$31.80 per 10 lb bundle

**Welding Wire** (purchased as needed throughout the course): \$100 per spool

**Total charges for period of attendance for**

**Bundle 3:** \$250+\$250+\$13,960= \$14,460

**Estimated schedule of total charges for**

**Bundle 3:** \$14,460+ 20\*\$31.80+\$100= \$15,196

**BUNDLE 4 - PIPELINE WELDER**

**Description:** This career builder bundle includes the following courses, which must be completed in the sequence shown:

- 1) W211 - SMAW API 1104 Basic Pipeline Welding - Petrochemical and Natural Gas
- 2) W212 - SMAW API 1104 Advanced Pipeline Welding - Petrochemical and Natural Gas
- 3) W206 - Pipe Layout and Fabrication

**Objective:** The objective of this career builder bundle is to give students the skills necessary for employment as a pipeline welder (water, gas, oil and other pipelines)

**Certifications:** At the end of each course included in the bundle, students will take the corresponding certification test in accordance to API 1104.

**Student Evaluation and Course Completion:**

This bundle consists of 3 courses. Successful completion of each course requires passing a certification test.

**Occupational Classification Code:** 51-4120

Welding, Soldering and Brazing Workers

**Bundle 4 Duration:** up to 44 classes, 264 hours of welding training.

**Registration fee:** \$250

**Textbook or online material fee:** \$250

**Bundle 4 Fee:** \$13,960

**Welding Rod Bundle** (purchased as needed throughout the course): \$31.80 per 10 lb bundle

**Total charges for period of attendance for**

**Bundle 4:** \$250+\$250+\$13,960= \$14,460

**Estimated schedule of total charges for**

**Bundle 4:** \$14,460+ 30\*\$31.80= \$15,414

**BUNDLE 5 - AEROSPACE WELDER**

**Description:** This career builder bundle includes the following courses, which must be completed in the sequence shown:

- 1) W301 - CS/SS/AL GTAW Basic AWS D9.1 Sheet Metal Welding
- 2) W303 - ASH GTAW Advanced AWS D17.1 Fusion Welding for Aerospace Applications
- 3) W303 - AT GTAW Advanced AWS D17.1 Fusion Welding for Aerospace Applications

**Objective:** The objective of this career builder bundle is to give students the skills necessary for employment as a welder in the aerospace industry.

**Certifications:** At the end of each course included in the bundle, students will take the corresponding certification test, as follows: AWS D9.1 Sheet Metal Welding Code, AWS D17.1 Fusion Welding for Aerospace Applications

**Student Evaluation and Course Completion:** This bundle consists of 3 courses. Successful completion of each course requires passing a certification test.

**Occupational Classification Code:** 51-4120  
Welding, Soldering and Brazing Workers

**Bundle 5 Duration:** up to 36 Classes, 232 hours of welding training.

**Registration fee:** \$250  
**Textbook or online material fee:** \$250  
**Bundle 5 Fee:** \$11,565  
**Material Bundle** (purchased as needed throughout the course) \$50 per bundle

**Total charges for period of attendance for Bundle 5:**  $\$250 + \$250 + \$11,565 = \$12,065$

**Estimated schedule of total charges for Bundle 5:**  $\$12,065 + 10 * 50 = \$12,565$

**BUNDLE 6 - FOOD AND BEVERAGE PROCESSING INDUSTRY WELDER**

**Description:** This career builder bundle includes the following courses, which must be completed in the sequence shown:

- 1) W301-SS - GTAW Basic AWS D9.1 Sheet Metal Welding - Stainless Steel
- 2) AWS W302-SS - GTAW Advanced AWS D18.1 Stainless Steel Tube & Pipe For Hygienic Applications

**Objective:** The objective of this career builder bundle is to give students the skills necessary for employment as a welder in the food and beverage processing industry.

**Certifications:** At the end of each course included in the bundle, students will take the

corresponding certification test, as follows: AWS D9.1 Sheet Metal Welding Code, AWS D18.1 Specification for Welding of Austenitic Stainless Steel Tube and Pipe Systems for Sanitary (Hygienic) Applications.

**Student Evaluation and Course Completion:** This bundle consists of 2 courses. Successful completion of each course requires passing a certification test.

**Occupational Classification Code:** 51-4120  
Welding, Soldering and Brazing Workers

**Bundle 6 Duration:** 24 classes, up to 144 hours of welding training.

**Registration fee:** \$250  
**Textbook or online material fee:** \$250  
**Bundle 6 Fee:** \$7,710  
**Material Bundle** (purchased as needed throughout the course) \$50 per bundle

**Total charges for period of attendance for Bundle 6:**  $\$250 + \$250 + \$7,710 = \$8,210$

**Estimated schedule of total charges for Bundle 6:**  $\$8,210 + 10 * 50 = \$8,710$

**BUNDLE 7 - STRUCTURE LIGHT GAGE WELDER (DECKING AND FRAMING)**

**Description:** This career builder bundle includes the following courses, which must be completed in the sequence shown:

- 1) W106 - GMAW AWS D1.3 Structural Welding Sheet Steel
- 2) W107 - FCAW-S AWS D1.3 Structural Welding Sheet Steel
- 3) W108 - SMAW AWS D1.3/L.A City Structural Welding Sheet Steel

**Objective:** The objective of this career builder bundle is to give students the skills necessary for employment as welder for light gage fabrication.

**Certifications:** At the end of each course included in the bundle, students will take the corresponding certification test, as follows: AWS D1.3 Structural Welding Sheet Steel Code.

**Student Evaluation and Course Completion:**



This bundle consists of 3 welding courses. Successful completion of each welding course requires passing a certification test.

**Occupational Classification Code:** 51-4120  
Welding, Soldering and Brazing Workers

**Bundle 7 Duration:** 36 classes, up to 216 hours of welding training.

**Registration fee:** \$250

**Textbook or online material fee:** \$250

**Bundle 7 Fee:** \$11,565

**Material Bundle** (purchased as needed throughout the course) \$50 per bundle

**Total charges for period of attendance for Bundle 7:** \$250+\$250+\$11,565= \$12,965

**Estimated schedule of total charges for Bundle 7:** \$12,065+ 10\*50=\$12,565

#### BUNDLE 8 -MOTORSPORT WELDER

**Description:** This career builder bundle includes the following courses, which must be completed in the sequence shown:

- 1) W304-CS/AI/SS - GMAW Basic AWS D9.1 Sheet Metal Welding
- 2) W301-CS/AI/SS - GTAW Basic AWS D9.1 Sheet Metal Welding
- 3) W305- CM/AI- GTAW/GMAW Advanced AWS D8.8 Automotive Welding - Chrome Moly/ Aluminum

**Objective:** The objective of this career builder bundle is to give students the skills necessary for employment as a welder in the motorsports industry.

**Certifications:** At the end of each course included in the bundle, students will take the corresponding certification test, as follows: AWS D9.1 Sheet Metal Welding Code and AWS D8.8 Automotive welding

**Student Evaluation and Course Completion:** This bundle consists of 3 courses. Successful completion of each course requires passing a certification test.

**Occupational Classification Code:** 51-4120  
Welding, Soldering and Brazing Workers

**Bundle 8 Duration:** up to 36 classes, 216 hours of welding training.

**Registration fee:** \$250

**Textbook or online material fee:** \$250

**Bundle 8 Fee:** \$11,565

**Material Bundle** (purchased as needed throughout the course) \$50 per bundle

**Total charges for period of attendance for Bundle 8:** \$250+\$250+\$11,565= \$12,065

**Estimated schedule of total charges for Bundle 8:** \$12,065+ 10\*50=\$12,565

#### BUNDLE 9 - I-CAR AUTOMOTIVE WELDER

**Description:** This career builder bundle includes the following courses, which must be completed in the sequence shown:

- 1) W304-CS/AL/SS - GMAW BASIC AWS D9.1 SHEET METAL WELDING
- 2) W301-CS/AL/SS - GTAW BASIC AWS D9.1 SHEET METAL WELDING
- 3) W306-CS/AL/SS - GMAW OR GTAW I-Car Welding

**Objective:** The objective of this career builder bundle is to give students the skills necessary for employment as a welder in the automotive industry.

**Certifications:** At the end of each course included in the bundle, students will take the corresponding certification test, as follows: AWS D9.1 Sheet Metal Welding Code

**Student Evaluation and Course Completion:** This bundle consists of 3 courses. Successful completion of each course requires passing a certification test.

**Occupational Classification Code:** 51-4120  
Welding, Soldering and Brazing Workers

**Bundle 9 Duration:** up to 36 classes, 216 hours of welding training.

**Registration fee:** \$250

**Textbook or online material fee:** \$250

**Bundle 9 Fee:** \$11,565

**Material Bundle** (purchased as needed throughout the course) \$50 per bundle

**Total charges for period of attendance for**

**Bundle 9:** \$250+\$250+\$11,565= \$12,065

**Estimated schedule of total charges for**

**Bundle 9:** \$12,065+ 10\*50=\$12,565

### **BUNDLE 10 - UNDERWATER WELDER (DRY WELDING)**

**Description:** This career builder bundle includes the following courses, which must be completed in the sequence shown:

- 1) W109 - SMAW AWS D3.6 Underwater Dry Welding (class A welds)
- 2) W103 - SMAW AWS D1.1/L.A City Welder Certification Structural steel pipe/tubular
- 3) W205 - GTAW Advanced ASME Section IX, AWS B2.1 Stainless Steel and Carbon Steel Pipe Welding

**Objective:** The objective of this career builder bundle is to give students the skills necessary for employment as an underwater welder. Additional training in wet welding environment is necessary to become an underwater welder and wet welding training is not offered by the California Welding Institute.

**Certifications:** At the end of each course included in the bundle, students will take the corresponding certification test, as follows: AWS D3.6, D1.1, ASME Section IX.

#### **Student Evaluation and Course Completion:**

This bundle consists of 3 courses. Successful completion of each course requires passing a certification test.

**Occupational Classification Code:** 51-4120

Welding, Soldering and Brazing Workers

**Bundle 10 Duration:** up to 48 classes, 288 hours of welding training.

**Registration fee:** \$250

**Textbook or online material fee:** \$250

**Bundle 10 Fee:** \$11,430

**Welding Rod Bundle** (purchased as needed throughout the course): \$31.80 per 10 lb bundle

**Total charges for period of attendance for**

**Bundle 10:** \$250+\$250+\$11,430= \$11,930

**Estimated schedule of total charges for**

**Bundle 10:** \$11,930+ 10\*31.80= \$12,248

## **Welding Courses**

The following is a list of welding courses offered by California Welding Institute:

### **W101 - SMAW AWS D1.1/L.A CITY WELDER CERTIFICATION STEEL PLATE**

**Pre-requisite:** None.

**Description:** This course is intended for novice, beginner and intermediate level skill welders.

The course begins with instruction on oxyacetylene welding and cutting and safety procedures for gas welding, followed by SMAW surfacing welds in flat and horizontal positions, and fillet welds in multiple positions, with two different types of electrode. Towards completion of the course, the student will weld a series of mock tests in multiple position groove welds.

**Objective:** Successful completion of this bundle gives students the skills necessary for employment in structural welding, general maintenance and repairs and fabrication shops. Students who successfully complete the course will also be eligible to apply to take the certification test.

#### **Student Evaluation and Course Completion:**

For successful completion the student shall take a practical welding test in the vertical and overhead positions (3G & 4G) on 3/8 inch or 1 inch plates using SMAW welding process. The test will be graded from a scale of 1 to 5. Students will receive a certificate of course completion upon successfully passing the test, which requires a passing score of 3.5 or higher.

**Occupational Classification Code:** 51-4120

Welding, Soldering and Brazing Workers

**W101 Course Duration:** up to 16 classes, 96 hours of welding training.

**Registration fee:** \$250

**Textbook or online material fee:** \$250

**W101 Course Fee:** \$3,190

**Welding Rod Bundle** (purchased as needed throughout the course): \$31.80 per 10 lb bundle



**Total charges for period of attendance for**

**W101:** \$250+\$250+\$3,190= \$3,690

**Estimated schedule of total charges for**

**W101:** \$3,690+ 10\*\$31.80= \$4,008

**W102 - FCAW AWS D1.1/L.A CITY WELDER  
CERTIFICATION STEEL PLATE**

**Pre-requisite:** W101 or equivalent Welder Qualification Test Record from our affiliate Advanced Weldtec, Inc.

**Description:** This course is intended for novice, beginner and intermediate level skill welders. The course begins with instruction FCAW-G surfacing welds in flat and horizontal positions, and fillet welds in multiple positions, followed by similar exercises using FCAW-S. Towards completion of the course, the student will weld a series of mock tests in multiple position groove welds.

**Objective:** Successful completion of this course gives students the skills necessary for employment in structural welding, general maintenance and repairs and fabrication shops. Students who successfully complete the course will also be eligible to apply to take the certification test.

**Student Evaluation and Course Completion:**

For successful completion the student shall take a practical welding test in the vertical and overhead positions (3G & 4G) on 3/8 inch or 1 inch plates using FCAW-S or FCAW-G welding process. The test will be graded from a scale of 1 to 5. Students will receive a certificate of course completion upon successfully passing the test, which requires a passing score of 3.5 of higher.

**Occupational Classification Code:** 51-4120  
Welding, Soldering and Brazing Workers

**W102 Course Duration:** up to 16 classes, 96 hours of welding training

**Registration fee:** \$250

**Textbook or online material fee:** \$250

**W102 Course Fee:** \$3,190

**Welding Wire** (purchased as needed throughout the course):\$100 per spool

**Total charges for period of attendance for**

**W102:** \$250+\$250+\$3,190= \$3,690

**Estimated schedule of total charges for**

**W102:** \$3,690+ \$100= \$3,790

**W103 - SMAW AWS D1.1/L.A CITY WELDER  
CERTIFICATION STRUCTURAL STEEL PIPE/  
TUBULAR**

**Pre-requisite:** W101 or W108 or equivalent Welder Qualification Test Record from our affiliate Advanced Weldtec, Inc.

**Description:** This course is intended for intermediate level skill welders. The course begins with instruction on oxyacetylene cutting and pipe fitting, followed by SMAW exercises involving open roots welds (without backing) on simulated TYK branch joints on structural pipe or tubing to plate in the 6GR position, using F4 electrodes. Towards completion of the course, the student will weld a series of mock tests in multiple position groove welds.

**Objective:** Successful completion of this course gives students the skills necessary for employment in structural steel building welding and fabrication. Students who successfully complete the course will also be eligible to apply to take the certification test.

**Student Evaluation and Course Completion:**

For successful completion the student shall take a practical welding test 6GR on 3 or 6 inch diameter pipe or tubing using SMAW welding process. The test will be graded from a scale of 1 to 5. Students will receive a certificate of course completion upon successfully passing the test, which requires a passing score of 3.5 of higher.

**Occupational Classification Code:** 51-4120  
Welding, Soldering and Brazing Workers

**W103 Course Duration:** up to 16 classes, 96 hours of welding training.

**Registration fee:** \$250

**Textbook or online material fee:** \$250

**W103 Course Fee:** \$3,955

**Welding Rod Bundle** (Purchased as needed throughout the course): \$31.80 per 10 lb bundle

**Total charges for period of attendance for**

**W103:** \$250+\$250+\$3,955=\$4,455



**Estimated schedule of total charges for W103:** \$4,455 +5\*\$31.80=\$4,614

**W104 - FCAW-G/ FCAW-S AWS D1.1 WELDER CERTIFICATION STRUCTURAL STEEL PIPE/ TUBULAR**

**Pre-requisite:** W102 or equivalent Welder Qualification Test Record from our affiliate Advanced Weldtec, Inc.

**Description:** This course is intended for intermediate level skill welders. The course begins with instruction on oxyacetylene cutting and pipe fitting, followed by welding on structural steel pipe using FCAW-S or FCAW-G. Exercises involve open roots welds (without backing) on simulated TYK branch joints on structural pipe to plate in the 6GR position, using E71T-8 welding wire. Towards completion of the course, the student will weld a series of mock tests in multiple position groove welds.

**Objective:** Successful completion of this bundle gives students the skills necessary for employment in structural steel building welding and fabrication. Students who successfully complete the course will also be eligible to apply to take the certification test.

**Student Evaluation and Course Completion:**

For successful completion the student shall take a practical welding test 6G on 3 or 6 inch diameter pipe or tubing using FCAW-G or FCAW-S welding process. The test will be graded from a scale of 1 to 5. Students will receive a certificate of course completion upon successfully passing the test, which requires a passing score of 3.5 of higher.

**Occupational Classification Code:** 51-4120 Welding, Soldering and Brazing Workers

**W104 Course Duration:** up to 16 classes, 96 hours of welding training.

**Registration fee:** \$250

**Textbook or online material fee:** \$250

**Welding Wire** (purchased as needed throughout the course):\$100 per spool

**W104 Course Fee:** \$3,955

**Total charges for period of attendance for W104:** \$250+\$250+\$3,955=\$4,455

**Estimated schedule of total charges for W104:** \$4,455 +\$100=\$4,555

**W105 - FCAW-S AWS D1.8/WELDER CERTIFICATION STRUCTURAL STEEL SEISMIC APPLICATION**

**Pre-requisite:** W102 or equivalent Welder Qualification Test Record from our affiliate Advanced Weldtec, Inc.

**Description:** This course is intended for intermediate level skill welders who will work on moment connections, where welding is Demand Critical, the weld joins the bottom beam flange to the column flange and the weld must be made through a beam web weld access hole. The course begins with instruction on oxyacetylene cutting with the track torch, followed by exercises welding on simulated moment connections in the flat position, using E71T-6 welding wire. Throughout the course, the student will weld a series of mock tests.

**Objective:** Successful completion of this course gives students the skills necessary for employment in structural welding and fabrication. Students who successfully complete the course will also be eligible to apply to take the certification test.

**Student Evaluation and Course Completion:**

For successful completion the student shall take a practical welding test 1G on a moment connection using FCAW-S welding process. The test will be graded from a scale of 1 to 5. Students will receive a certificate of course completion upon successfully passing the test, which requires a passing score of 3.5 of higher.

**Occupational Classification Code:** 51-4120 Welding, Soldering and Brazing Workers

**W105 Course Duration:** up to 16 classes, 96 hours of welding training.

**Registration fee:** \$250

**Textbook or online material fee:** \$250

**Welding Wire** (purchased as needed throughout the course):\$100 per spool

**W105 Course Fee:** \$3,955

**Total charges for period of attendance for W105:** \$250+\$250+\$3,955=\$4,455

**Estimated schedule of total charges for W105:** \$4,455 +\$100=\$4,555





### W106 - GMAW AWS D1.3 STRUCTURAL WELDING SHEET STEEL

**Pre-requisite:** None.

**Description:** This course is intended for all skill levels, including novice. The course begins safety procedures for arc welding, followed by GMAW surfacing welds in all positions, and butt joints on 10 gage and 18 gage carbon steel and galvanized steel. Towards completion of the course, the student will weld a series of mock tests in the same material and thickness.

**Objective:** Successful completion of this bundle gives students the skills necessary for employment in decking and framing. Students who successfully complete the course will also be eligible to apply to take the certification test.

#### Student Evaluation and Course Completion:

For successful completion the student shall take a practical welding test in the vertical (3G) and overhead positions (4G) on G60 galvanized steel using GMAW welding process. The test will be graded from a scale of 1 to 5. Students will receive a certificate of course completion upon successfully passing the test, which requires a passing score of 3.5 of higher.

**Occupational Classification Code:** 51-4120  
Welding, Soldering and Brazing Workers

**W106 Course Duration:** up to 12 classes, 72 hours of welding training.

**Registration fee:** \$250

**Textbook or online material fee:** \$250

**Welding Wire** (purchased as needed throughout the course): \$100 per spool

**Material bundle** (purchased as needed throughout the course) \$50 per bundle

**W106 Course Fee:** \$3,490

**Total charges for period of attendance for**

**W106:** \$250+\$250+\$3,490= \$3,990

**Estimated schedule of total charges for**

**W106:** \$3,990+ \$100+5\*50= \$4,340

### W107 - FCAW-S AWS D1.3 STRUCTURAL WELDING SHEET STEEL

**Pre-requisite:** None.

**Description:** This course is intended for all skill levels, including novice. The course begins safety procedures for arc welding, followed by FCAW-S (self shielded) surfacing welds in all positions, and butt joints on 10 gage and 18 gage carbon steel and galvanized steel. Towards completion of the course, the student will weld a series of mock tests in the same material and thickness.

**Objective:** Successful completion of this bundle gives students the skills necessary for employment in decking and framing. Students who successfully complete the course will also be eligible to apply to take the certification test.

#### Student Evaluation and Course Completion:

For successful completion the student shall take a practical welding test in the vertical (3G) and overhead positions (4G) on G60 galvanized steel using FCAW-S welding process. The test will be graded from a scale of 1 to 5. Students will receive a certificate of course completion upon successfully passing the test, which requires a passing score of 3.5 of higher.

**Occupational Classification Code:** 51-4120  
Welding, Soldering and Brazing Workers

**W107 Course Duration:** up to 12 classes, 72 hours of welding training.

**Registration fee:** \$250

**Textbook or online material fee:** \$250

**Welding Wire** (purchased as needed throughout the course): \$100 per spool

**Material bundle** (purchased as needed throughout the course) \$50 per bundle

**W107 Course Fee:** \$3,490

**Total charges for period of attendance for**

**W107:** \$250+\$250+\$3,490= \$3,990

**Estimated schedule of total charges for**

**W107:** \$3,990+ \$100+5\*50= \$4,340



### W108 - SMAW AWS D1.3 STRUCTURAL WELDING SHEET STEEL

**Pre-requisite:** None.

**Description:** This course is intended for all skill levels, including novice. The course begins safety procedures for arc welding, followed by SMAW surfacing welds in all positions, and butt joints on 10 gage and 18 gage carbon steel and galvanized steel. Towards completion of the course, the student will weld a series of mock tests in the same material and thickness.

**Objective:** Successful completion of this bundle gives students the skills necessary for employment in decking and framing. Students who successfully complete the course will also be eligible to apply to take the certification test.

#### Student Evaluation and Course Completion:

For successful completion the student shall take a practical welding test in the overhead positions (4G) on G60 galvanized steel using SMAW welding process. The test will be graded from a scale of 1 to 5. Students will receive a certificate of course completion upon successfully passing the test, which requires a passing score of 3.5 or higher.

**Occupational Classification Code:** 51-4120 Welding, Soldering and Brazing Workers

**W108 Course Duration:** up to 12 classes, 72 hours of welding training.

**Registration fee:** \$250

**Textbook or online material fee:** \$250

**W108 Course Fee:** \$3,490

**Welding Rod Bundle** (Purchased as needed throughout the course): \$31.80 per 10 lb bundle

**Material bundle** (purchased as needed throughout the course) \$50 per bundle

**Total charges for period of attendance for**

**W108:** \$250+\$250+\$3,490= \$3,990

**Estimated schedule of total charges for**

**W108:** \$3,990+ 5\*31.80+5\*50= \$4,399

### W109 - SMAW AWS D3.6 UNDERWATER DRY WELDING (CLASS A WELDS)

**Pre-requisite:** None.

**Description:** This course is intended for novice, beginner and intermediate level skill welders that want to pursue a career in underwater welding. This is preliminary training for underwater welding (wet welding). The course begins with instruction on oxyacetylene welding and cutting and safety procedures for gas welding, followed by SMAW surfacing welds in flat and horizontal positions, and fillet welds in multiple positions, with two different types of electrode. Towards completion of the course, the student will weld a series of mock tests in multiple position groove welds.

**Objective:** Successful completion of this bundle gives students the skills necessary for employment in structural welding, general maintenance and repairs and fabrication shops. Students who successfully complete the course will also be eligible to apply to take the certification test.

#### Student Evaluation and Course Completion:

For successful completion the student shall take a practical welding test in the flat, vertical and overhead positions (2G, 3G up, 3G down, & 4G) on 3/8 inch or 1 inch plates using SMAW welding process. The test will be graded from a scale of 1 to 5. Students will receive a certificate of course completion upon successfully passing the test, which requires a passing score of 3.5 or higher.

**Occupational Classification Code:** 51-4120 Welding, Soldering and Brazing Workers

**W109 Course Duration:** up to 16 classes, 96 hours of welding training.

**Registration fee:** \$250

**Textbook or online material fee:** \$250

**W109 Course Fee:** \$3,490

**Welding Rod Bundle** (Purchased as needed throughout the course): \$31.80 per 10 lb bundle

**Total charges for period of attendance for**

**W109:** \$250+\$250+\$3,490= \$3,990

**Estimated schedule of total charges for**

**W109:** \$3,990+ 5\*31.80= \$4,149



### W201 - SMAW ASME SECTION IX AWS B2.1 BASIC PIPE WELDING COURSE - ALL UPHILL

**Pre-requisite:** W101 or equivalent Welder Qualification Test Record from our affiliate Advanced Weldtec, Inc.

**Description:** This course is intended for intermediate level skill welders who want to work in oil refineries and other process pressure piping. This course involves welding on 6" schedule 40 or 6" schedule 80 carbon steel pipe - all uphill welding. Exercises involve open roots welds on plate in the 3G and 4G positions, followed by welding on pipe in the 2G, 5G and 6G positions, using E6010 for uphill root and and E7018 for all other weld passes. Towards completion of the course, the student will weld a series of mock tests in multiple position groove welds on pipe.

**Objective:** Successful completion of this bundle gives students the skills necessary for employment in process pressure piping applications (such as in oil refineries). Students who successfully complete the course will also be eligible to apply to take the certification test.

#### Student Evaluation and Course Completion:

For successful completion the student shall take a practical welding test 6G on pipe. The test will be graded from a scale of 1 to 5. Students will receive a certificate of course completion upon successfully passing the test, which requires a passing score of 3.5 or higher.

**Occupational Classification Code:** 51-4120  
Welding, Soldering and Brazing Workers

**W201 Course Duration:** 16 classes, up to 96 hours of welding training.

**Registration fee:** \$250

**Textbook or online material fee:** \$250

**W201 Course Fee:** \$3,955

**Welding Rod Bundle** (Purchased as needed throughout the course): \$31.80 per 10 lb bundle

**Total charges for period of attendance for**

**W201:** \$250+\$250+\$3,955=\$4,455

**Estimated schedule of total charges for**

**W201:** \$4,455 +5\*\$31.80=\$4,614

### W202 - SMAW ASME SECTION IX AWS B2.1 BASIC PIPE WELDING COURSE - DOWNHILL/ UPHILL

**Pre-requisite:** W101 or equivalent Welder Qualification Test Record from our affiliate Advanced Weldtec, Inc.

**Description:** This course is intended for intermediate level skill welders who want to work in utility services piping, oil refineries and other process pressure piping. This course involves welding on 6" schedule 40 or 6" schedule 80 carbon steel pipe - downhill root pass, uphill passes. Exercises involve open roots welds on plate in the 3G and 4G positions, followed by welding on pipe in the 2G, 5G and 6G positions, using E6010 for downhill root and and E7018 for all other weld passes, uphill. Towards completion of the course, the student will weld a series of mock tests in multiple position groove welds on pipe.

**Objective:** Successful completion of this bundle gives students the skills necessary for employment in utility service piping, process pressure piping applications (such as in oil refineries). Students who successfully complete the course will also be eligible to apply to take the certification test.

#### Student Evaluation and Course Completion:

For successful completion the student shall take a practical welding test 6G on pipe. The test will be graded from a scale of 1 to 5. Students will receive a certificate of course completion upon successfully passing the test, which requires a passing score of 3.5 or higher.

**Occupational Classification Code:** 51-4120  
Welding, Soldering and Brazing Workers

**W202 Course Duration:** up to 16 classes, 96 hours of welding training.

**Registration fee:** \$250

**Textbook or online material fee:** \$250

**W202 Course Fee:** \$3,955

**Welding Rod Bundle** (Purchased as needed throughout the course): \$31.80 per 10 lb bundle

**Total charges for period of attendance for**

**W202:** \$250+\$250+\$3,955=\$4,455

**Estimated schedule of total charges for**

**W202:** \$4,455 +5\*\$31.80=\$4,614



### W203 - GTAW/SMAW COMBO WELDER BASIC ASME SECTION IX, AWS B2.1 PIPE WELDING

**Pre-requisite:** W201 or equivalent Welder Qualification Test Record from our affiliate Advanced Weldtec, Inc.

**Description:** This course is intended for intermediate level skill welders who want to work in oil refineries and other process pressure piping. This course involves welding on 2" schedule 80 XXH carbon steel pipe - all uphill welding. Exercises involve open roots welds on plate in the 3G and 4G positions, followed by welding on pipe in the 2G, 5G and 6G positions. GTAW is used for root and hot pass using ER70S-2 and SMAW E7018 for all other weld passes. Towards completion of the course, the student will weld a series of mock tests in multiple position groove welds on pipe.

**Objective:** Successful completion of this bundle gives students the skills necessary for employment in process pressure piping applications (such as in oil refineries). Students who successfully complete the course will also be eligible to apply to take the certification test.

#### Student Evaluation and Course Completion:

For successful completion the student shall take a practical welding test 6G on pipe. The test will be graded from a scale of 1 to 5. Students will receive a certificate of course completion upon successfully passing the test, which requires a passing score of 3.5 or higher.

**Occupational Classification Code:** 51-4120

Welding, Soldering and Brazing Workers

**W203 Course Duration:** up to 16 classes, 96 hours of welding training.

**Registration fee:** \$250

**Textbook or online material fee:** \$250

**W203 Course Fee:** \$3,955

**Welding Rod Bundle** (Purchased as needed throughout the course): \$31.80 per 10 lb bundle

**Total charges for period of attendance for W203:** \$250+\$250+\$3,955=\$4,455

**Estimated schedule of total charges for W203:** \$4,455 +5\*\$31.80=\$4,614

### W204 - GTAW/SMAW COMBO WELDER ADVANCED ASME SECTION IX, AWS B2.1 PIPE WELDING

**Pre-requisite:** W203 or equivalent Welder Qualification Test Record from our affiliate Advanced Weldtec, Inc.

**Description:** This course is intended for intermediate level skill welders who want to work in oil refineries and other process pressure piping. This course involves welding on 2-3/4" O.D. x 5/8" WT x 4 carbon steel pipe - all uphill welding using GTAW for the root and hot pass, and SMAW for filler and cap. Exercises involve welding in 6G and 6GR positions. GTAW is used for root and hot pass using ER70S-2 and SMAW E7018 for all other weld passes. Towards completion of the course, the student will weld a series of mock tests in multiple position groove welds on pipe.

**Objective:** Successful completion of this bundle gives students the skills necessary for employment in process pressure piping applications (such as in oil refineries). Students who successfully complete the course will also be eligible to apply to take the certification test.

#### Student Evaluation and Course Completion:

For successful completion the student shall take a practical welding test on pipe. The test will be graded from a scale of 1 to 5. Students will receive a certificate of course completion upon successfully passing the test, which requires a passing score of 3.5 or higher.

**Occupational Classification Code:** 51-4120

Welding, Soldering and Brazing Workers

**W204 Course Duration:** up to 16 classes, 96 hours of welding training.

**Registration fee:** \$250

**Textbook or online material fee:** \$250

**W204 Course Fee:** \$3,740

**Welding Rod Bundle** (Purchased as needed throughout the course): \$31.80 per 10 lb bundle

**Total charges for period of attendance for W204:** \$250+\$250+\$3,740=\$4,240

**Estimated schedule of total charges for W204:** \$4,240 +5\*\$31.80=\$4,399





### W205 - GTAW ADVANCED ASME SECTION IX, AWS B2.1 STAINLESS STEEL AND CARBON STEEL PIPE WELDING

**Pre-requisite:** W301-SS or W302-CS/SS/Al or equivalent Welder Qualification Test Record from our affiliate Advanced Weldtec, Inc.

**Description:** This course is intended for intermediate level skill welders who want to work in oil refineries, fuel lines, water desalination plants, and other pressure piping. This course involves welding on 2" schedule 40 stainless steel pipe and 2" XXH carbon steel pipe- all uphill welding using GTAW. Towards completion of the course, the student will weld a series of mock tests in multiple position groove welds on stainless steel and carbon steel pipe.

**Objective:** Successful completion of this course gives students the skills necessary for employment in process pressure piping applications (such as in oil refineries). Students who successfully complete the course will also be eligible to apply to take the certification test.

#### Student Evaluation and Course Completion:

For successful completion the student shall take a practical welding test on stainless steel and carbon steel pipe in the 6G position. The test will be graded from a scale of 1 to 5. Students will receive a certificate of course completion upon successfully passing the test, which requires a passing score of 3.5 or higher.

**Occupational Classification Code:** 51-4120  
Welding, Soldering and Brazing Workers

**W205 Course Duration:** up to 16 classes, 96 hours of welding training.

**Registration fee:** \$250

**Textbook or online material fee:** \$250

**W205 Course Fee:** \$3,955

**Material bundle** (purchased as needed throughout the course) \$50 per bundle

**Total charges for period of attendance for**

**W205:** \$250+\$250+\$3,955=\$4,455

**Estimated schedule of total charges for**

**W205:** \$4,455 +5\*\$50=\$4,705

### W206 - PIPE LAYOUT AND FABRICATION

**Pre-requisite:** W201 or equivalent Welder Qualification Test Record from our affiliate Advanced Weldtec, Inc.

**Description:** This course is intended for advanced skill level pipe welders and pipe fitters. For layouts, this course takes students through the basics of blue print reading of piping systems, measuring elevations, calculating offsets using trigonometry tables, calculating travels and runs, calculating fitting take offs. For fabrication, this course takes students through actual hands on cutting of pipe with a torch pipe beveler, tacking fittings and welding rolled out welds and fixed position welds in accordance to piping blue print.

**Objective:** Successful completion of this course gives students the skills necessary for employment in natural gas and petrochemical pipelines.

#### Student Evaluation and Course Completion:

For successful completion the student shall pass a test on fabrication. The test will be graded from a scale of 1 to 5. Students will receive a certificate of course completion upon successfully passing the test, which requires a passing score of 3.5 or higher.

**Occupational Classification Code:** 51-4120  
Welding, Soldering and Brazing Workers

**W206 Course Duration:** up to 12 classes, 72 hours of welding training.

**Registration fee:** \$250

**Textbook or online material fee:** \$250

**W206 Course Fee:** \$4,955

**Welding Rod Bundle** (Purchased as needed throughout the course): \$31.80 per 10 lb bundle

**Total charges for period of attendance for**

**W206:** \$250+\$250+\$4,955=\$5,455

**Estimated schedule of total charges for**

**W206:** \$5,455 +5\*\$31.80=\$5,614



### W211 - SMAW API 1104 BASIC PIPELINE WELDING - ALL DOWNHILL - PETROCHEMICAL AND NATURAL GAS

**Pre-requisite:** None.

**Description:** This course is intended for intermediate level skill welders who want to work on natural gas and petrochemical pipelines and related facilities. This course involves welding on 4" to 6" or bigger carbon steel pipe - all downhill welding using SMAW. Exercises involve open roots welds on plate in the flat, vertical and overhead positions, followed by welding on pipe in the 2G and 5G positions, using E6010. Towards completion of the course, the student will weld a series of mock tests in multiple position groove welds on carbon steel pipe.

**Objective:** Successful completion of this bundle gives students the skills necessary for employment in natural gas and petrochemical pipelines. Students who successfully complete the course will also be eligible to apply to take the certification test.

#### **Student Evaluation and Course Completion:**

For successful completion the student shall take a practical welding test on carbon steel pipe. The test will be graded from a scale of 1 to 5. Students will receive a certificate of course completion upon successfully passing the test, which requires a passing score of 3.5 or higher.

**Occupational Classification Code:** 51-4120  
Welding, Soldering and Brazing Workers

**W211 Course Duration:** up to 16 classes, 96 hours of welding training.

**Registration fee:** \$250

**Textbook or online material fee:** \$250

**W211 Course Fee:** \$3,955

**Welding Rod Bundle** (Purchased as needed throughout the course): \$31.80 per 10 lb bundle

**Total charges for period of attendance for**

**W211:** \$250+\$250+\$3,955=\$4,455

**Estimated schedule of total charges for**

**W211:** \$4,455 +5\*\$31.80=\$4,614

### W212 - SMAW API 1104 ADVANCED PIPELINE WELDING - ALL DOWNHILL - PETROCHEMICAL AND NATURAL GAS

**Pre-requisite:** W211 or equivalent Welder Qualification Test Record from our affiliate Advanced Weldtec, Inc.

**Description:** This course is intended for advanced level skill welders who want to work on natural gas and petrochemical pipelines and related facilities. This course involves welding on 10", 12" or bigger carbon steel pipe - all downhill welding using SMAW. Exercises involve welding butt joints, using E6010, all downhill passes, and also downhill root and low hydrogen electrode uphill fill and cap. Towards completion of the course, the student will weld a series of mock tests in multiple position groove welds on carbon steel pipe.

**Objective:** Successful completion of this bundle gives students the skills necessary for employment in process natural gas and petrochemical pipelines. Students who successfully complete the course will also be eligible to apply to take the certification test.

#### **Student Evaluation and Course Completion:**

For successful completion the student shall take a practical welding test on carbon steel pipe. The test will be graded from a scale of 1 to 5. Students will receive a certificate of course completion upon successfully passing the test, which requires a passing score of 3.5 or higher.

**Occupational Classification Code:** 51-4120  
Welding, Soldering and Brazing Workers

**W212 Course Duration:** up to 16 classes, 96 hours of welding training.

**Registration fee:** \$250

**Textbook or online material fee:** \$250

**W212 Course Fee:** \$4,955

**Welding Rod Bundle** (Purchased as needed throughout the course): \$31.80 per 10 lb bundle

**Total charges for period of attendance for**

**W212:** \$250+\$250+\$4,955=\$5,455

**Estimated schedule of total charges for**

**W212:** \$5,455 +5\*\$31.80=\$5,614





### W301-CS - GTAW BASIC AWS D9.1 SHEET METAL WELDING - CARBON STEEL

**Pre-requisite:** None

**Description:** This course is intended for novice, beginner and intermediate level skill welders who want to work in filming studios, automotive or other work involving non-structural sheet metal. Exercises involve welding butt and T-joints in the flat, horizontal, vertical and overhead positions, using GTAW, on 10 gage and 18 gage sheet steel.

**Objective:** Successful completion of this bundle gives students the skills necessary for employment in filming studios, automotive or other work involving non-structural sheet metal. Students who successfully complete the course will also be eligible to apply to take the certification test.

#### Student Evaluation and Course Completion:

For successful completion the student shall take a practical welding test. The test will be graded from a scale of 1 to 5. Students will receive a certificate of course completion upon successfully passing the test, which requires a passing score of 3.5 or higher.

**Occupational Classification Code:** 51-4120  
Welding, Soldering and Brazing Workers

**W301-CS Course Duration:** up to 12 classes, 72 hours of welding training.

**Registration fee:** \$250

**Textbook or online material fee:** \$250

**W301-CS Course Fee:** \$3,490

**Material bundle** (purchased as needed throughout the course) \$50 per bundle

**Total charges for period of attendance for**

**W301-CS:**  $\$250 + \$250 + \$3,490 = \$3,990$

**Estimated schedule of total charges for**

**W301-CS:**  $\$3,990 + 5 * \$50 = \$4,240$

### W301-AL - GTAW BASIC AWS D9.1 SHEET METAL WELDING - ALUMINUM

**Pre-requisite:** None

**Description:** This course is intended for novice, beginner and intermediate level skill welders who want to work in filming studios, automotive or other work involving non-structural sheet metal. Exercises involve welding butt and T-joints in the flat, horizontal, vertical and overhead positions, using GTAW, on 10 gage and 18 gage aluminum.

**Objective:** Successful completion of this bundle gives students the skills necessary for employment in filming studios, automotive or other work involving non-structural sheet metal. Students who successfully complete the course will also be eligible to apply to take the certification test.

#### Student Evaluation and Course Completion:

For successful completion the student shall take a practical welding test. The test will be graded from a scale of 1 to 5. Students will receive a certificate of course completion upon successfully passing the test, which requires a passing score of 3.5 or higher.

**Occupational Classification Code:** 51-4120  
Welding, Soldering and Brazing Workers

**W301-AL Course Duration:** up to 12 classes, 72 hours of welding training.

**Registration fee:** \$250

**Textbook or online material fee:** \$250

**W301-AL Course Fee:** \$3,490

**Material bundle** (purchased as needed throughout the course) \$50 per bundle

**Total charges for period of attendance for**

**W301-AL:**  $\$250 + \$250 + \$3,490 = \$3,990$

**Estimated schedule of total charges for**

**W301-AL:**  $\$3,990 + 3 * \$50 = \$4,240$



### W301-SS - GTAW BASIC AWS D9.1 SHEET METAL WELDING - STAINLESS STEEL

**Pre-requisite:** None

**Description:** This course is intended for novice, beginner and intermediate level skill welders who want to work in filming studios, automotive or other work involving non-structural sheet metal. Exercises involve welding butt and T-joints in the flat, horizontal, vertical and overhead positions, using GTAW, on 10 gage and 18 gage stainless steel.

**Objective:** Successful completion of this bundle gives students the skills necessary for employment in filming studios, automotive or other work involving non-structural sheet metal. Students who successfully complete the course will also be eligible to apply to take the certification test.

#### Student Evaluation and Course Completion:

For successful completion the student shall take a practical welding test. The test will be graded from a scale of 1 to 5. Students will receive a certificate of course completion upon successfully passing the test, which requires a passing score of 3.5 or higher.

**Occupational Classification Code:** 51-4120  
Welding, Soldering and Brazing Workers

**W301-SS Course Duration:** up to 12 classes, 72 hours of welding training.

**Registration fee:** \$250

**Textbook or online material fee:** \$250

**W301-SS Course Fee:** \$3,490

**Material bundle** (purchased as needed throughout the course) \$50 per bundle

**Total charges for period of attendance for**

**W301-SS:** \$250+\$250+\$3,490=\$3,990

**Estimated schedule of total charges for**

**W301-SS:** \$3,990+5\*\$50=\$4,240

### W301-CS/AL/SS - GTAW BASIC AWS D9.1 SHEET METAL WELDING

**Pre-requisite:** None

**Description:** This course is intended for novice, beginner and intermediate level skill welders who want to work in filming studios, commercial kitchen equipment, automotive or other work involving non-structural sheet metal. Exercises involve welding butt and T-joints in the flat, horizontal, vertical and overhead positions, using GTAW, on 14 gage stainless steel, aluminum and carbon steel.

**Objective:** Successful completion of this bundle gives students the skills necessary for employment in filming studios, automotive or other work involving non-structural sheet metal. Students who successfully complete the course will also be eligible to apply to take the certification test.

#### Student Evaluation and Course Completion:

For successful completion the student shall take a practical welding test. The test will be graded from a scale of 1 to 5. Students will receive a certificate of course completion upon successfully passing the test, which requires a passing score of 3.5 or higher.

**Occupational Classification Code:** 51-4120  
Welding, Soldering and Brazing Workers

**W301-CS/AL/SS Course Duration:** up to 12 classes, up to 72 hours of welding training.

**Registration fee:** \$250

**Textbook or online material fee:** \$250

**W301-CS/AL/SS Course Fee:** \$3,490

**Material bundle** (purchased as needed throughout the course) \$50 per bundle

**Total charges for period of attendance for**

**W301-CS/AL/SS:** \$250+\$250+\$3,490=\$3,990

**Estimated schedule of total charges for**

**W301-CS/AL/SS:** \$3,990+5\*\$50=\$4,240



### W302-SS - GTAW ADVANCED AWS D18.1 STAINLESS STEEL TUBE FOR HYGIENIC APPLICATIONS

**Pre-requisite:** W301-SS or -W301-CS/SS/AL or equivalent Welder Qualification Test Record from our affiliate Advanced Weldtec, Inc.

**Description:** This course is intended for intermediate level skill welders who want to work in hygienic applications. Exercises involve welding butt joints using GTAW, on 2 inch diameter austenitic stainless steel tube or pipe.

**Objective:** Successful completion of this bundle gives students the skills necessary for employment in hygienic applications (for example, food processing plants, water purification systems, pharmaceutical industry). Students who successfully complete the course will also be eligible to apply to take the certification test.

#### Student Evaluation and Course Completion:

For successful completion the student shall take a practical welding test in the 6G position on 2inch diameter austenitic stainless steel tube or pipe. The test will be graded from a scale of 1 to 5. Students will receive a certificate of course completion upon successfully passing the test, which requires a passing score of 3.5 of higher.

**Occupational Classification Code:** 51-4120  
Welding, Soldering and Brazing Workers

**W302-SS Course Duration:** up to 12 classes, 72 hours of welding training.

**Registration fee:** \$250

**Textbook or online material fee:** \$250

**W302-SS Course Fee:** \$3,490

**Material bundle** (purchased as needed throughout the course) \$50 per bundle

**Total charges for period of attendance for**

**W302-SS:** \$250+\$250+\$3,490=\$3,990

**Estimated schedule of total charges for**

**W302-SS:** \$3,990+5\*\$50=\$4,240

### W303-ASH - GTAW ADVANCED AWS D17.1 FUSION WELDING FOR AEROSPACE APPLICATIONS

**Pre-requisite:** W301-AL or -W301-CS/SS/AL or equivalent Welder Qualification Test Record from our affiliate Advanced Weldtec, Inc.

**Description:** This course is intended for intermediate level skill welders who want to work in aerospace applications. Exercises involve welding butt joints and T-joints using GTAW, on 16 gage and 10 gage sheet aluminum for Class A welds.

**Objective:** Successful completion of this bundle gives students the skills necessary for employment the aerospace industry. Students who successfully complete the course will also be eligible to apply to take the certification test.

#### Student Evaluation and Course Completion:

For successful completion the student shall take two practical welding tests in the 2G & 3G positions on 16 gage and 10 gage sheet aluminum and 2F & 3F positions on 16 gage sheet aluminum. The tests will be graded from a scale of 1 to 5. Students will receive a certificate of course completion upon successfully passing the test, which requires a passing score of 3.5 of higher.

**Occupational Classification Code:** 51-4120  
Welding, Soldering and Brazing Workers

**W303-ASH Course Duration:** up to 12 classes, 72 hours of welding training.

**Registration fee:** \$250

**Textbook or online material fee:** \$250

**W303-ASH Course Fee:** \$3,490

**Material bundle** (purchased as needed throughout the course) \$50 per bundle

**Total charges for period of attendance for**

**W303-ASH:** \$250+\$250+\$3,490=\$3,990

**Estimated schedule of total charges for**

**W303-ASH:** \$3,990+5\*\$50=\$4,240



### W303-AT - GTAW ADVANCED AWS D17.1 FUSION WELDING FOR AEROSPACE APPLICATIONS

**Pre-requisite:** W303-ASH or equivalent Welder Qualification Test Record from our affiliate Advanced Weldtec, Inc.

**Description:** This course is intended for advanced level skill welders who want to work in aerospace applications. Exercises involve welding butt joints and T-joints using GTAW, on 0.051 inch and 0.040 inch aluminum sheet, and 3/4" and 1/2" OD aluminum tube for Class A welds.

**Objective:** Successful completion of this bundle gives students the skills necessary for employment in the aerospace industry. Students who successfully complete the course will also be eligible to apply to take the certification test.

#### Student Evaluation and Course Completion:

For successful completion the student shall take two practical welding tests welding tube to tube and tube to sheet. The tests will be graded from a scale of 1 to 5. Students will receive a certificate of course completion upon successfully passing the test, which requires a passing score of 3.5 or higher.

**Occupational Classification Code:** 51-4120  
Welding, Soldering and Brazing Workers

**W303-AT Course Duration:** up to 12 classes, 72 hours of welding training.

**Registration fee:** \$250

**Textbook or online material fee:** \$250

**W303-AT Course Fee:** \$3,490

**Material bundle** (purchased as needed throughout the course) \$50 per bundle

**Total charges for period of attendance for**

**W303-AT:** \$250+\$250+\$3,490=\$3,990

**Estimated schedule of total charges for**

**W303-AT:** \$3,990+5\*\$50=\$4,240

### W304-CS - GMAW BASIC AWS D9.1 SHEET METAL WELDING - CARBON STEEL

**Pre-requisite:** None

**Description:** This course is intended for novice, beginner and intermediate level skill welders who want to work in HVAC, filming studios, automotive or other work involving non-structural sheet metal. Exercises involve welding butt and T-joints in the flat, horizontal, vertical and overhead positions, using GMAW, on 10 gage and 18 gage coated (galvanized) and non-coated carbon steel.

**Objective:** Successful completion of this bundle gives students the skills necessary for employment in HVAC, filming studios, automotive or other work involving non-structural sheet metal. Students who successfully complete the course will also be eligible to apply to take the certification test.

#### Student Evaluation and Course Completion:

For successful completion the student shall take a practical welding test. The test will be graded from a scale of 1 to 5. Students will receive a certificate of course completion upon successfully passing the test, which requires a passing score of 3.5 or higher.

**Occupational Classification Code:** 51-4120  
Welding, Soldering and Brazing Workers

**W304-CS Course Duration:** up to 12 classes, 72 hours of welding training.

**Registration fee:** \$250

**Textbook or online material fee:** \$200

**W304-CS Course Fee:** \$3,490

**Material bundle** (purchased as needed throughout the course) \$50 per bundle

**Total charges for period of attendance for**

**W304-CS:** \$250+\$250+\$3,490=\$3,990

**Estimated schedule of total charges for**

**W304-CS:** \$3,990+5\*\$50=\$4,240



### W304-AL - GMAW BASIC AWS D9.1 SHEET METAL WELDING - ALUMINUM

**Pre-requisite:** None

**Description:** This course is intended for novice, beginner and intermediate level skill welders who want to work in HVAC, filming studios, automotive or other work involving non-structural sheet metal. Exercises involve welding butt and T-joints in the flat, horizontal, vertical and overhead positions, using GMAW, on 10 gage and 18 gage aluminum.

**Objective:** Successful completion of this bundle gives students the skills necessary for employment in n HVAC, filming studios, automotive or other work involving non-structural sheet metal. Students who successfully complete the course will also be eligible to apply to take the certification test.

#### **Student Evaluation and Course Completion:**

For successful completion the student shall take a practical welding test. The test will be graded from a scale of 1 to 5. Students will receive a certificate of course completion upon successfully passing the test, which requires a passing score of 3.5 or higher.

**Occupational Classification Code:** 51-4120  
Welding, Soldering and Brazing Workers

**W304-AL Course Duration:** up to 12 classes, 72 hours of welding training.

**Registration fee:** \$250

**Textbook or online material fee:** \$250

**W304-AL Course Fee:** \$3,490

**Material bundle** (purchased as needed throughout the course) \$50 per bundle

**Total charges for period of attendance for**

**W304-AL:**  $\$250 + \$250 + \$3,490 = \$3,990$

**Estimated schedule of total charges for**

**W304-AL:**  $\$3,990 + 5 * \$50 = \$4,240$

### W304-SS - GMAW BASIC AWS D9.1 SHEET METAL WELDING - STAINLESS STEEL

**Pre-requisite:** None

**Description:** This course is intended for novice, beginner and intermediate level skill welders who want to work in HVAC, filming studios, automotive or other work involving non-structural sheet metal. Exercises involve welding butt and T-joints in the flat, horizontal, vertical and overhead positions, using GMAW, on 10 gage and 18 gage stainless steel.

**Objective:** Successful completion of this bundle gives students the skills necessary for employment in n HVAC, filming studios, automotive or other work involving non-structural sheet metal. Students who successfully complete the course will also be eligible to apply to take the certification test.

#### **Student Evaluation and Course Completion:**

For successful completion the student shall take a practical welding test. The test will be graded from a scale of 1 to 5. Students will receive a certificate of course completion upon successfully passing the test, which requires a passing score of 3.5 or higher.

**Occupational Classification Code:** 51-4120  
Welding, Soldering and Brazing Workers

**W304-SS Course Duration:** up to 12 classes, 72 hours of welding training.

**Registration fee:** \$250

**Textbook or online material fee:** \$250

**W304-SS Course Fee:** \$3,490

**Material bundle** (purchased as needed throughout the course) \$50 per bundle

**Total charges for period of attendance for**

**W304-SS:**  $\$250 + \$250 + \$3,490 = \$3,990$

**Estimated schedule of total charges for**

**W304-SS:**  $\$3,990 + 5 * \$50 = \$4,240$





### W304-CS/AL/SS - GMAW BASIC AWS D9.1 SHEET METAL WELDING

**Pre-requisite:** None

**Description:** This course is intended for novice, beginner and intermediate level skill welders who want to work in HVAC, filming studios, automotive or other work involving non-structural sheet metal. Exercises involve welding butt and T-joints in the flat, horizontal, vertical and overhead positions, using GMAW, on 14 gage stainless steel, aluminum and carbon steel.

**Objective:** Successful completion of this bundle gives students the skills necessary for employment in n HVAC, filming studios, automotive or other work involving non-structural sheet metal. Students who successfully complete the course will also be eligible to apply to take the certification test.

#### Student Evaluation and Course Completion:

For successful completion the student shall take a practical welding test. The test will be graded from a scale of 1 to 5. Students will receive a certificate of course completion upon successfully passing the test, which requires a passing score of 3.5 of higher.

**Occupational Classification Code:** 51-4120  
Welding, Soldering and Brazing Workers

**W304-CS/AL/SS Course Duration:** up to 12 classes, 72 hours of welding training.

**Registration fee:** \$250

**Textbook or online material fee:** \$250

**W304-CS/AL/SS Course Fee:** \$3,490

**Material bundle** (purchased as needed throughout the course) \$50 per bundle

**Total charges for period of attendance for**

**W304-CS/AL/SS:** \$250+\$250+\$3,490=\$3,990

**Estimated schedule of total charges for**

**W304-CS/AL/SS:** \$3,990+5\*\$50=\$4,240

### W305-CM/AL GTAW ADVANCED AWS D8.8 AUTOMOTIVE WELDING - CHROME MOLY/ ALUMINUM

**Pre-requisite:** W301AL or W301 CS/A:/SS or equivalent Welder Qualification Test Record from our affiliate Advanced Weldtec, Inc.

**Description:** This course is intended for advanced level skill welders who want to work in automotive applications. Exercises involve welding butt joints and branch connections using GTAW on 4130 Chrome Moly tubing and aluminum tubing.

**Objective:** Successful completion of this course gives students the skills necessary for employment the automotive industry. Students who successfully complete the course will also be eligible to apply to take the certification test.

#### Student Evaluation and Course Completion:

For successful completion the student shall take two practical welding tests welding tube to tube and tube to sheet. The tests will be graded from a scale of 1 to 5. Students will receive a certificate of course completion upon successfully passing the test, which requires a passing score of 3.5 of higher.

**Occupational Classification Code:** 51-4120  
Welding, Soldering and Brazing Workers

**W305-CM/AL Course Duration:** up to 12 classes, 72 hours of welding training.

**Registration fee:** \$250

**Textbook or online material fee:** \$250

**W305-CM/AL Course Fee:** \$3,490

**Material bundle** (purchased as needed throughout the course) \$50 per bundle

**Total charges for period of attendance for**

**W305-CM/AL:** \$250+\$250+\$3,490=\$3,990

**Estimated schedule of total charges for**

**W305-CM/AL:** \$3,990+5\*\$50=\$4,240





### W306-CS/AL/SS - GMAW I-CAR WELDING

**Pre-requisite:** W304-CS/AL/SS or equivalent Welder Qualification Test Record from our affiliate Advanced Weldtec, Inc.

**Description:** This course is intended for intermediate level skill welders who want to work automotive body shops. Exercises involve welding butt joints open root and also with backing, lap joints and plug welds, using GMAW, on 16 gage stainless steel, carbon steel, and aluminum.

**Objective:** Successful completion of this bundle gives students the skills necessary for employment in automotive body shops.

#### Student Evaluation and Course Completion:

For successful completion the student shall take a practical welding test. The test will be graded from a scale of 1 to 5. Students will receive a certificate of course completion upon successfully passing the test, which requires a passing score of 3.5 or higher.

**Occupational Classification Code:** 51-4120 Welding, Soldering and Brazing Workers

**W306-CS/AL/SS Course Duration:** up to 12 classes, 72 hours of welding training.

**Registration fee:** \$250

**Textbook or online material fee:** \$250

**W306-CS/AL/SS Course Fee:** \$3,490

**Material bundle** (purchased as needed throughout the course) \$50 per bundle

**Total charges for period of attendance for**

**W306-CS/AL/SS:**  $\$250 + \$250 + \$3,490 = \$3,990$

**Estimated schedule of total charges for**

**W306-CS/AL/SS:**  $\$3,990 + 5 * \$50 = \$4,240$

### Professional Development Courses

Professional development courses are all lecture-based classes. Many of the courses are meant to prepare students for certification testing offered by other organizations, such as the International Code Council and the American Welding Society.

Professional development courses do not require student evaluation. The course is considered complete if the student attended class as required.

### PDH-LAWC - L.A CITY WELDER CERTIFICATION WRITTEN EXAM PREPARATION CLASS

**Pre-requisite:** None

**Description:** This one day lecture is intended for welders who want to obtain the L.A City Welder Certification. The class consists of a lecture on general welding knowledge and the AWS D1.1 codebook.

**Objective:** Successful completion of this class prepares students to take the L.A City Certified Structural Welder Written Exam, which is administered by the City of Los Angeles Department of Building and Safety.

**Required Publications:** AWS D1.1:2010 and the textbook Welding Principles and Applications by Larry Jeffus, latest edition.

#### Student Evaluation and Course Completion:

Students will not be evaluated at the end of the class. The course is considered complete if the student attended class as required.

**Occupational Classification Code:** 51-4120 Welding, Soldering and Brazing Workers

**PDH-LAWC Course Duration:** 1 day, up to 10 hrs of instruction

**Registration fee:** \$250

**Course fee:** \$275

**Required publications fee:** \$370

**Total charges for period of attendance for**

**PDH-LAWC:**  $\$250 + \$275 = \$525$

**Estimated schedule of total charges for PDH-LAWC:**  $\$525 + \$370 = \$895$

### PDH-CWI - CWI EXAM PREPARATION COURSE

**Pre-requisite:** None

**Description:** This course is intended for those who want to become an American Welding Society Certified Welding Inspector or want to learn about welding inspection. This course is divided into three parts:

Part A - Fundamentals

Part B - Visual Inspection / Practical Workshop

Part C - Codebook

This is a 60 hours course, and each Part is covered in 2 days.



Students can register to attend one, two or all three parts.

**Objective:** Successful completion of this class prepares students to work in welding inspection and quality control. It also prepares students who wish to take the American Welding Society Certified Welding Inspector exam, which is administered by the American Welding Society.

### Required Publications:

For Part A:

- (1) WIT-T Welding Inspection Technology
- (2) WIT-W Welding Inspection Technology Workbook
- (3) AWS A3.0M/A3.0 Standard Welding Terms and Definitions
- (4) AWS A2.4/A2.4M Standard Symbols for Welding, Brazing, and Nondestructive examination
- (5) Official AWS Book of Sample Examination Questions

For Part B: AWS B1.10/B1.10M Guide for the Nondestructive Examination of Welds

For Part C:

- (1) AWS D1.1/D1.1M Structural Welding Code - Steel
- (2) CC-RM AWS D1.1 Code Clinic - Reference Manual

OR

- (3) AWS D17.1 Fusion Welding for Aerospace Applications

### Student Evaluation and Course Completion:

Students will not be evaluated at the end of the class. The course is considered complete if the students attended the Parts they registered for.

**Occupational Classification Code:** 51-4120

Welding, Soldering and Brazing Workers

**PDH-CWI Course Duration:** 6 days, up to 60 hours of instruction

**Registration fee:** \$250

**Course fee - all three parts:** \$1,500

**Course fee - two parts:** \$1050

**Course fee - one part:** \$400

### Textbook (Required Publications) fee:

Publications for Part A, Part B and Part C bundle (with AWS D1.1 codebook): \$1,150

Publications for Part A, Part B and Part C bundle (with AWS D17.1 codebook): \$850

**Total charges for period of attendance for all three parts of PDH-CWI:** \$250 + \$1,500 = \$1,750

**Estimated schedule of total charges for all three parts of PDH-CWI:** \$1,750 + \$1,150 = \$2,900

### PDH-CWI INDIVIDUAL CLASS

**Pre-requisite:** None

**Description:** Individual CWI classes consist of 1 day of instruction and are scheduled on an individual basis. Each class can hold maximum of 2 people. Depending on the instruction desired, students may need to purchase the above mentioned publications. The following are the prices for individual classes:

**Occupational Classification Code:** 51-4120

Welding, Soldering and Brazing Workers

**PDH-CWI Individual Class Duration:** 1 day, up to 10 hours of instruction

**Registration fee:** \$250

**One-Day class fee:** \$410

**Total charges for period of attendance for PDH-CWI Individual class:** \$250 + \$410 = \$660

Estimated schedule of total charges for PDH-CWI Individual Class: \$250 + \$410 = \$660

### PDH WPS/PQR/WPQR CLASS

**Pre-requisite:** None

**Description:** This one day class is intended for those who want to learn how to write Welding Procedure Specifications, Procedure Qualification Records and Welder Performance Qualification Records.

**Occupational Classification Code:** 51-4120

Welding, Soldering and Brazing Workers

**PDH-WPS/PQR/WPQR Class Duration:** 1 day, up to 10 hours of instruction



**Registration fee:** \$250  
**One-Day class fee:** \$410  
**Total charges for period of attendance for PDH WPS/PQR/WPQR:** \$250 + \$410 = \$660  
**Estimated schedule of total charges for PDH WPS/PQR/WPQR :** \$250 + \$410 = \$660

#### PDH- DESTRUCTIVE TESTING CLASS

**Pre-requisite:** None

**Description:** This one day class is intended for those who want how to learn about destructive testing techniques. This class will cover the following destructive testing methods: bend test, tension test, metallurgical test, and hardness test. The class will provide an overview of the different destructive testing methods and applications, followed by hands-on training in some of the methods.

**PDH-Destructive Testing Class Duration:** 1 day, up to 10 hours of instruction

**Registration fee:** \$250

**One-Day class fee:** \$410

**Total charges for period of attendance for PDH-Destructive Testing:** \$250 + \$410 = \$660  
**Estimated schedule of total charges for PDH Destructive Testing:** \$250 + \$410 = \$660

#### PDH-L.A CITY DEPUTY INSPECTOR/ICC SPECIAL INSPECTOR S1 STRUCTURAL STEEL AND BOLTING SPECIAL INSPECTOR CLASS

**Pre-requisite:** None

**Description:** This one day class is intended for those who want to work as special inspectors and/or L.A City Deputy Inspectors. Students will learn structural steel and high strength bolting, and reading structural plans/blueprint reading.

**Required Publications:** AISC Steel Construction Manual, including AISC Specifications for Structural Joints using High Strength Bolts & IBC 2015

#### Required Publication fees:

AISC manual: \$400

IBC 2015: \$200

**Occupational Classification Code:** 51-4120  
 Welding, Soldering and Brazing Workers

**PDH-L.A City/ICC Special Inspector S1 Class**  
**Duration:** 1 day, up to 10 hours of instruction

**Registration fee:** \$250

**PDH-L.A City/ICC Special Inspector S1 Class fee:** \$410

**Total charges for period of attendance for PDH-L.A City/ICC Special Inspector S1**

**Class :** \$250 + \$410= \$660

**Estimated schedule of total charges for PDH-L.A City/ICC Special Inspector S1 Class:** \$660 + \$400 + \$200= \$1,260

#### PDH-L.A CITY DEPUTY INSPECTOR/ICC SPECIAL INSPECTOR S2 STRUCTURAL WELDING SPECIAL INSPECTOR CLASS

**Pre-requisite:** None

**Description:** This two day class is intended for those who want to work as special inspectors. Students will learn blueprint reading, welding symbols, the AWS D1.1 Structural Welding Code - Steel and reading plans.

**Required Publications :** AWS D1.1:2015 & AWS A2.4

#### Required Publications Fees:

AWS D1.1:2015: \$425

AWS A2.4: \$155

**Occupational Classification Code:** 51-4120  
 Welding, Soldering and Brazing Workers

**PDH-L.A City/ICC Special Inspector S2 Class**  
**Duration:** 2 days, up to 16 hours of instruction

**Registration fee:** \$250

**Class fee:** \$950

**Total charges for period of attendance for PDH-L.A City/ICC Special Inspector S2**

**Course :** \$250 + \$950 = \$1,200

**Estimated schedule of total charges for PDH-L.A City/ICC Special Inspector S2 Course:** \$1,200 + \$425 + \$155 = \$1,780



## List of Welding gear and hand tools for All welding courses

Students must purchase the following welding gear and hand tools. California Welding Institute does not sell these items and cannot provide an estimate. This applies to all welder training courses, bundles and one day welding classes:

4. ESAB Sentinel Welding Helmet with Auto Darkening Lens
5. Clear Plastic Cover Lens Replacements (both inner and outer replacement)
6. Welding Jacket 100% Cotton, no leather.
7. Cotton Pants
8. Comeaux Brand Cotton Welding Hat with Beak to pull over your ear when welding overhead
9. Safety Toe (steel toe or composite toe) Work Boot (such as: Timberland Pro Men's 26078 " Waterproof Safety-Toe Work Boot)
10. Push-in type earplugs with cord to hang on neck
11. Safety Glasses clear or yellow
12. Safety glasses grey tint
13. Clear Face Shield - Complete with adjustable head gear
14. Work Gloves (recommended: 2-3 pairs of leather palm / cotton back / lined inside)
15. Round/Curved Jaw 10" locking vise grip pliers for grabbing hot metal
16. Small focused beam LED inspection flashlight
17. Bridge Cam Gage Welding Gage (to measure weld undercut & weld bead height)

## Additional Welding Gear and Hand Tools for Bundle 10, W101, W103, W109

1. Safety Glasses # 5 Dark Green Tint
2. Arc Welding Gloves (such: Nomex line)
3. Two Slag Hammers with wood handle:
  1. Cone & chisel with chisel "hatchet" type
  2. Cone & chisel with chisel "cross chisel" type
4. 2 vise-grip C Clamps with pads
5. Hand Brush either plain steel or stainless steel and wood handle
6. Chisel for steel (cold chisel 3/4" wide)
7. Ball Peen Hammer - 24 oz. size with wood handle or fiberglass
8. Two grinders:
  1. DEWALT 4-1/2 in 11 Amp Paddle Switch Corded Angle Grinder (DEWALT # 402W5) or similar
  2. DEWALT 7 in 13-Amp Trigger Corded Angle Grinder (DEWALT # DW840) or similar
9. Grinding wheels ( Norton brand preferred)
  1. 4-1/2" x 1/4" (quantity:2)
  2. 4-1/2" x 1/8" (quantity: 2)
  3. 7" x 1/4" (quantity:2)
  4. 7" x 1/8" (quantity:2)
10. Wire Wheels (brush)
  1. 4-1/2" Bead Brush (quantity: 2)
  2. 6" Bead Brush (quantity:1)
11. Striker (to light torch)
12. Torch Tip Cleaner sets - short and long
13. 25ft Stanley tape measure
14. Soapstone (chalk) with holder (flat and/or round)
15. Magnetic 9" Torpedo level



16. "Rod Guard" Standard Size - 10lb capacity (plastic container for storing welding rod)
    1. 4-1/2" x 1/4" (quantity:2)
    2. 4-1/2" x 1/8" (quantity: 1)
  17. Fillet Weld Gage Set (to measure weld size)
    3. 7" x 1/4" (quantity:2)
    4. 7" x 1/8" (quantity:1)
  18. Two Helmet bags:
    1. One for welding helmet
    2. One for face shield
  19. Two Heavy Duty Canvas Tool Bags:
    1. One Leather Bottom Bucket with Connection Points Klein Tools 5104OCTO
    2. One 24 inch canvas tool bag - leather (such as Klein Tools 5102-16)
  10. Wire Wheels (brush)
    1. 4-1/2" Bead Brush (quantity: 2)
    2. 6" Bead Brush (quantity:1)
  11. Striker (to light torch)
  12. Torch Tip Cleaner sets - short and long
  13. 25ft Stanley tape measure
  14. Soapstone (chalk) with holder (flat and/or round)
  15. Magnetic 9" Torpedo level
  16. "Rod Guard" Standard Size - 10lb capacity (plastic container for storing welding rod)
  17. Fillet Weld Gage Set (to measure weld size)
  18. MIG pliers
  19. Two Helmet bags:
    1. One for welding helmet
    2. One for face shield
  20. Two Heavy Duty Canvas Tool Bags:
    1. One Leather Bottom Bucket with Connection Points Klein Tools 5104OCTO
    2. One 24 inch canvas tool bag - leather (such as Klein Tools 5102-16)
  21. Innershield Goose Necks (Gun Tube Assembly):
    - 90 Degree, 6 inch Lincoln Part # KP1920-1 (quantity:1)
    - 30 Degree, 6 Inch Lincoln Part # KP1914-2 (quantity:1)
  22. Innershield Thread protector/insulator Profax Part # PX T12313 (quantity: 1)
- Additional Welding Gear and Hand Tools for Bundle 1**
1. Safety Glasses # 5 Dark Green Tint
  2. Arc Welding Gloves (such: Nomex line)
  3. Two Slag Hammers with wood handle:
    1. Cone & chisel with chisel "hatchet" type
    2. Cone & chisel with chisel "cross chisel" type
  4. 2 vise-grip C Clamps with pads
  5. Hand Brush either plain steel or stainless steel and wood handle
  6. Chisel for steel (cold chisel 3/4" wide)
  7. Ball Peen Hammer - 24 oz. size with wood handle or fiberglass
  8. Two grinders:
    1. DEWALT 4-1/2 in 11 Amp Paddle Switch Corded Angle Grinder (DEWALT # 402W5) or similar
    2. DEWALT 7 in 13-Amp Trigger Corded Angle Grinder (DEWALT # DW840) or similar
  9. Grinding wheels (Norton Brand Preferred)





23. 0.068"/0.072" Innershield Contact tips Lincoln Part # KP2100-1B1 or compatible)(quantity: 1 package of 10 units)
  24. Innershield Heat Shield Assembly, Lincoln Part # S13037
  25. Parts for Outershield Gun (gas shielded)
    - Gas Diffuser Thread-on Lincoln Part # KP2746-1 (quantity: 1)
    - Gas tube insulator Lincoln Part # KP2773-2 (quantity: 1)
    - Gas nozzle, Standard 0.5, 1/8" Stickout, Lincoln Part #KP2742-1-50S (quantity:1)
    - Gas nozzle Standard 0.625, Flush, Lincoln Part # KP2742-1-62S (quantity: 1)
    - 0.045" Contact tips, Lincoln Part # KP2744-045 (quantity:1 bag of 10 units)
  26. Chain locking pliers: chain needs to be 24" long (quantity:1) (Strong Hand Tools Part # PFC1024)
  27. Nicholson 14" Half Round Pipeliner file - Manufacturer Part # 05190N (quantity: 1)
  28. Telescoping Inspection Mirror 2-1/4", 30" Retractable Handle
  29. Small Spacing Wedge 3 1/2" X 1 1/2" X 1/4" (quantity:1) (Mathey Dearman Part #D272)
- Additional Welding Gear and Hand Tools for Bundle 2, W102, W104, W105**
1. Safety Glasses # 5 Dark Green Tint
  2. Arc Welding Gloves (such: Nomex line)
  3. Two Slag Hammers with wood handle:
    1. Cone & chisel with chisel "hatchet" type
    2. Cone & chisel with chisel "cross chisel" type
  4. 2 vise-grip C Clamps with pads
  5. Hand Brush either plain steel or stainless steel and wood handle
  6. Chisel for steel (cold chisel 3/4" wide)
  7. Ball Peen Hammer - 24 oz. size with wood handle or fiberglass
  8. MIG pliers
  9. Two grinders:
    1. DEWALT 4-1/2 in 11 Amp Paddle Switch Corded Angle Grinder (DEWALT # 402W5) or similar
    2. DEWALT 7 in 13-Amp Trigger Corded Angle Grinder (DEWALT # DW840) or similar
  10. Grinding wheels (Norton Brand Preferred)
    1. 4-1/2" x 1/4" (quantity:2)
    2. 4-1/2" x 1/8" (quantity: 1)
    3. 7" x 1/4" (quantity:2)
    4. 7" x 1/8" (quantity:1)
  11. Wire Wheels (brush)
    1. 4-1/2" Bead Brush (quantity: 2)
    2. 6" Bead Brush (quantity:1)
  12. Striker (to light torch)
  13. Torch Tip Cleaner sets - short and long
  14. 25ft Stanley tape measure
  15. Soapstone (chalk) with holder (flat and/or round)
  16. Magnetic 9" Torpedo level
  17. "Rod Guard" Standard Size - 10lb capacity (plastic container for storing welding rod)
  18. Fillet Weld Gage Set (to measure weld size)
  19. Two Helmet bags:
    1. One for welding helmet
    2. One for face shield

20. Two Heavy Duty Canvas Tool Bags:

1. One Leather Bottom Bucket with Connection Points Klein Tools 5104OCTO
2. One 24 inch canvas tool bag - leather (such as Klein Tools 5102-16)

21. Innershield Goose Necks (Gun Tube Assembly):

- 90 Degree, 6 inch Lincoln Part # KP1920-1 (quantity:1)
- 30 Degree, 6 Inch Lincoln Part # KP1914-2 (quantity:1)

22. Innershield Thread protector/insulator Profax Part # PX T12313 (quantity: 1)

23. 0.068"/0.072" Innershield Contact tips Lincoln Part # KP2100-1B1 or compatible)(quantity:1 package of 10 units)

24. Innershield Heat Shield Assembly, Lincoln Part # S13037

25. Parts for Outershield Gun (gas shielded)

- Gas Diffuser Thread-on Lincoln Part # KP2746-1 (quantity: 1)
- Gas tube insulator Lincoln Part # KP2773-2 (quantity: 1)
- Gas nozzle, Standard 0.5, 1/8" Stickout, Lincoln Part #KP2742-1-50S (quantity:1)
- Gas nozzle Standard 0.625, Flush, Lincoln Part # KP2742-1-62S (quantity: 1)
- 0.045" Contact tips, Lincoln Part # KP2744-045 (quantity:1 bag of 10 units)

**Additional Welding Gear and Hand Tools for Bundle 3, Bundle 4, W201 through W206, W211, W212:**

1. Safety Glasses # 5 Dark Green Tint
2. Arc Welding Gloves (such as: 750 or 850 Nomex line from Black Stallion or Tilman)
3. Ball Peen Hammer - 24 oz. size with wood handle or fiberglass
4. Two grinders:
  1. DEWALT 4-1/2 in 11 Amp Paddle Switch Corded Angle Grinder (DEWALT # 402W5) or similar
  2. DEWALT 7 in 13-Amp Trigger Corded Angle Grinder (DEWALT # DW840) or similar
5. Grinding wheels (Norton Brand Preferred)
  1. 4-1/2" x 1/4" (quantity:1)
  2. 4-1/2" x 1/8" (quantity: 2)
  3. 7" x 1/4" (quantity:1)
  4. 7" x 1/8" (quantity:2)
6. Wire Wheels (brush)
  1. 4-1/2" Bead Brush (quantity: 1)
  2. 7" Bead Brush (quantity:1)
7. Striker (to light torch)
8. Torch Tip Cleaner sets - short and long
9. 25ft Stanley tape measure
10. Soapstone (chalk) with holder (round)
11. Magnetic 9" Torpedo level
12. Two Helmet bags:
  1. One for welding helmet
  2. One for face shield
13. Small Spacing Wedge 3 1/2" X 1 1/2" X 1/4"(quantity:1) (Mathey Dearman Part #D272)

14. Chain locking pliers: chain needs to be 24" long (quantity:1) (Strong Hand Tools Part # PFC1024)
15. Nicholson 14" Half Round Pipeliner file - Manufacturer Part # 05190N (quantity: 1)
16. Telescoping Inspection Mirror 2-1/4", 30" Retractable Handle

**Additional Welding Gear and Hand Tools for Bundle 5, Bundle 6, Bundle 8, Bundle 9, and W301 series courses, W302 and W303 series courses:**

1. TIG Welding Gloves
2. Sharpie Tungsten Electrode Grinder
3. Tungsten Electrodes: 3/32" diameter 2% Seriated
4. 90° Angle Mini Pneumatic (Air) Grinder with 3" Pad ( quantity: 1)
5. 2" Scotch-brite buffing disc pads for cleaning aluminum ( quantity: 5)
6. Small stainless steel brush (quantity: 1)
7. Medium stainless steel brush (quantity: 1)
8. Small regular steel brush (quantity:1)
9. Medium regular steel brush (quantity:1)
10. Roll of blue masking tape 2" wide (qntity: 1 )
11. Small container for Acetone (a can, no plastic) (quantity: 1)
12. Bottle of Heet (quantity:1)
13. 14" (8 Tooth per inch) Flat Body File (quantity: 1)
14. MIG Pliers
15. 12 Oz ball peen hammer
17. Shop rags
18. Lint free cloth
19. Stainless steel wool (quantity: 1)
20. Aluminum etching solution bottle(only for Bundle 5) (quantity:1)
21. Solar flux can (quantity: 1)

22. DEWALT 4-1/2 in 11 Amp Paddle Switch Corded Angle Grinder (DEWALT # 402W5) or similar

23. For 20 size TIG torch:
  1. Standard Collet Body for 3/32" diameter electrode ( quantity: 1)
  2. Standard Collet for 3/32" diameter electrode ( quantity:3 )
  3. Standard Collet Body for 1/16" diameter electrode ( quantity: 1)
  4. Standard Collet for 1/16" diameter electrode ( quantity:3 )
  5. Gas Cups sizes #5, #6, #7 and #8 for Standard collet ( quantity: 2 of each size)
  6. TIG Cup Insulator for Standard Collet (quantity: 2)
  7. Gas Lens Collet body 3/32" diameter electrode ( quantity: 1)
  8. Gas Lens Collet 3/32" diameter electrode ( quantity: 3)
  9. Gas Lens Collet body 1/16" diameter electrode ( quantity: 1)
  10. Gas Lens Collet 1/16" diameter electrode ( quantity: 3)
  11. Gas Cups sizes #5, #6, #7 and #8 for Gas Lens Collet ( quantity: 2 of each size)
  12. TIG Cup insulator for Gas Lens Collet (quantity:2)

24. For 17 size TIG torch:
  1. Standard Collet Body for 3/32" diameter electrode ( quantity: 1)
  2. Standard Collet for 3/32" diameter electrode ( quantity:3 )
  3. Standard Collet Body for 1/16" diameter electrode ( quantity: 1)
  4. Standard Collet for 1/16" diameter electrode ( quantity:3 )
  5. Gas Cups sizes #5, #6, #7 and #8 for Standard collet ( quantity: 2 of each size)
  6. TIG Cup Insulator for Standard Collet (quantity: 2)

**Additional Welding Gear and Hand Tools for Bundle 7, Bundle 8, Bundle 9, W106 series, W304 series, W305, W306:**

1. 2 vise-grip C Clamps with pads



2. MIG pliers
3. MIG welding gloves
4. Ball Peen Hammer - 12 oz. size wood (for light gage sheet metal)
5. Full size carbon steel hand brush (if course material is carbon steel)
6. Full size stainless steel brush (if course material is stainless steel or aluminum)
7. DEWALT 4-1/2 in 11 Amp Paddle Switch Corded Angle Grinder (DEWALT # 402W5) or similar
8. Wire Wheels (brush): 4-1/2" Bead Brush (quantity: 1)

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Course Catalog

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