

# SOUTHERN CALIFORNIA SHEET METAL TRAINING CENTER

*Local 105 Membership Training Classes*

**ALL LOCAL 105 BUILDING TRADES MEMBERS ARE ELIGIBLE TO ENROLL  
(PRIORITY IS GIVEN TO JOURNEYPERSONS)**

## **SPRING SEMESTER 2024**

**CLASSES BEGIN THE WEEK OF JANUARY 22nd, 2024.  
ALL JOURNEYPERSON CLASSES ARE FROM 5:00P.M. TO 8:00P.M.**

**\*\*\*Dates are subject to change\*\*\* Please visit our website for the latest schedule [www.socalsma.org/night](http://www.socalsma.org/night)**

**TO ATTEND NIGHT CLASSES, YOU MUST WEAR WORK BOOTS, & LONG PANTS.**

### Required pre-requisite classes for Detailing Program

#### Blueprint Reading Tuesday Nights, Begins January 23rd – 5:00pm to 8:00pm

The purpose of this course is to teach you to read, use and interpret Plans and Specifications associated with the Sheet Metal Industry. This class is required to complete the CAD and Revit Detailing Program. You will only be allowed 3 absences to qualify as a completed class to use as a pre-requisite.

#### Board Detailing Wednesday nights, Begins January 24th – 5:00pm to 8:00pm

This class uses ITI Detailing curriculum to teach Board and Field Detailing, including coordination and cut sheets. This class is required to complete the CAD and Revit Detailing Program. You will only be allowed 3 absences to qualify as a completed class to use as a pre-requisite.

#### Basic Computers + Bluebeam Monday nights.

Group session #1 begins February 26th – 5:00pm to 8:00pm

Group session #2 begins April 15th – 5:00pm to 8:00pm

This 6-night class concentrates on basic computer knowledge including Window O/S, MS Word, Excel, and Bluebeam. This course will also cover basic file structure and file management. This class is required to complete the CAD and Revit Detailing Program. You will only be allowed 1 absence to qualify as a completed class to use as a pre-requisite.

### Required classes for Detailing Program

#### Basic AutoCAD Tuesday Nights, Begins January 23rd – 5:00pm to 8:00pm

Pre-requisites: Blueprint Reading, Board Detailing and Basic Computers

This class concentrates on learning the basic operating environment of AutoCAD software. This class is required to complete the CAD Detailing Program. You will only be allowed 3 absences to qualify as a completed class to use as a pre-requisite.

#### CAD FAB + Database Wednesday Nights, Begins January 24th – 5:00pm to 8:00pm

Pre-requisites: Blueprint Reading, Board Detailing, Basic Computers, Basic AutoCAD - This is a class that teaches the preeminent Detailing software used in the Sheet Metal Industry. This class is required to complete the CAD Detailing Program. You will only be allowed 3 absences to qualify as a completed class to use as a pre-requisite.

[Advance AutoCAD](#) Thursday Nights, Begins January 25th – 5:00pm to 8:00pm

Pre-requisites: Blueprint Reading, Board Detailing, Basic Computers, Basic AutoCAD, and CAD Fab + Database - CAD Detailing compiles the knowledge gained in the previous pre-requisites to begin detailing a “Real World” project. These classes are required to complete the CAD Detailing Program. You will only be allowed 3 absences to qualify as a completed class.

[REVIT 1](#) Thursday Nights, Begins January 25th – 5:00pm to 8:00pm

Pre-requisites: Blueprint Reading, Board Detailing, Basic Computers, Basic AutoCAD, CAD Fab + Database and Advance AutoCAD - The REVIT 1 class will introduce detailers to MEP Fabrication parts, and best practices for project setup, linking drawings, views, annotation, documentation, families, import and export Fabrication (.maj) files. Also intro to Hangerworks, a Revit plugin for point loads and seismic.

[REVIT 2](#) Tuesday Nights, Begins January 23rd – 5:00pm to 8:00pm

Pre-requisites: Blueprint Reading, Board Detailing, Basic Computers, Basic AutoCAD, CAD Fab + Database, Advance AutoCAD and Revit 1

This class will continue with Revit and includes Navisworks.

## [Technical Training Schedule](#)

**\*NEW CLASS\*** [3D Scanner](#) Five nights, Monday nights April 1st, 8th, 15th, 22nd, and 29th – 5:00pm to 8:00pm

**\*NEW CLASS\*** [Architectural Expansion Joints](#) Three nights, Wednesday nights May 8th, 15th & 22nd – 5:00pm to 8:00pm This is a three-night class that will introduce as well as provide detailed instruction on proper installation of the various types of architectural expansion joints.

[Architectural Field Installation](#) Thursday nights January 25th – 5:00pm to 8:00pm Learn the basics of architectural field installation. Contact the JATC before showing up throughout the semester for enrollment.

[Duct Leakage Testing](#) One night, Thursdays, May 23rd, – 5:00pm to 8:00pm

Learn to duct pressure test by doing the calculations, pressure testing a duct run, and filling out the reports. This is classroom and hands-on.

### [EPA Certification](#)

This is a home study class followed with one night of testing for an EPA Certification. Study material found at [www.socalsma.org/epa](http://www.socalsma.org/epa)

### [Fire and Smoke Dampers Supervisor](#)

(Available Online Through [www.sheetmetal-iti.org](http://www.sheetmetal-iti.org))

This course will prepare you in the management and maintenance of fire dampers, smoke dampers and combination fire and smoke dampers. At the end of this course, you should be prepared to take the Fire and Smoke Damper Supervisor Certification Exam.

[Fire and Smoke Dampers Technician](#) Four nights, Tuesdays, February 6th, 13th, 20th, & 27th – 5:00pm to 8:00pm

This 4-night course addresses the installation, operation and maintenance of fire dampers, smoke dampers and combination fire and smoke dampers. At the end of this course, you should be prepared to take the Fire and Smoke Damper Technician Certification Exam.

[Hilti Certification](#) One Night, Monday, March 18th – 5:00pm to 8:00pm

## **Indoor Air Quality** Three nights, Wednesday, April 10th, 17th, & 24th – 5:00pm to 8:00pm

Indoor air quality is the air quality within and around buildings and structures. IAQ is known to affect the health, comfort, and well-being of building occupants. Poor indoor air quality has been linked to sick building syndrome, reduced productivity, and impaired learning in schools.

## **Layout** Monday nights begins January 22nd – 5:00pm to 8:00pm

Before any tangible object can be fabricated, it first must be imagined in someone's mind. The process of layout and pattern development serves as the bridge between the mental visualization of an object and its actual fabrication.

## **\*NEW CLASS\*** **Procore** Five nights, Wednesday nights February 21st, 28th, March 6th, 13th, & 20th – 5:00pm to 8:00pm

**Anyone Testing for Smoke Control Systems  
Must Be TABB Certified!**

## **Smoke Control Systems Technician**

(Available Online Through <http://www.sheetmetal-iti.org>)

This course will teach you how to inspect, test and maintain smoke control systems. At the end of this course, you should be prepared to take the Smoke Control Systems Technician Certification Exam.

**In person class** begins on Tuesday nights April 2nd, 9th, 16th and 23rd for a total of 4 nights.

## **Smoke Control Systems Supervisor**

(Available Online Through <http://www.nemionline.org>)

This course will prepare you in the management and maintenance of smoke control systems. At the end of this course, you should be prepared to take the Smoke Control Systems Supervisor Certification Exam.

## **HVAC Service 1** Monday Nights, Begins January 22nd – 5:00pm to 8:00pm

Basic Level - Will focus on electrical principles. High and low voltage systems and related components will be covered, as well as reading wiring schematics.

## **HVAC Service 2** Wednesday Nights, January 24th – 5:00pm to 8:00pm

Intermediate Level - Will focus on refrigeration principles. The refrigeration cycle, basic thermodynamics and refrigeration components will be covered. This class will also cover gas fired heating and brazing copper refrigerant lines.

**30 Hour OSHA** This is an online course through <http://www.klg-iti.org> that requires 30 hours of online training to be completed within 6 months from the date when you start the course. You must pass each module with a minimum passing score of 70%. You have three chances to pass the OSHA 30 online test. You will receive a temporary certificate upon completion and an OSHA 30 card will be mailed to you. A payment of \$117 is required for this course. Proof of payment and a copy of certificate are required to get reimbursed by the JATC. Copies of receipts and certificates can be emailed to Max Lai at [MaxL@socalsma.org](mailto:MaxL@socalsma.org)

The option to take the OSHA 30 bundle is also available but must submit at least one additional safety certificate to get reimbursed. Price \$151.

## **Powered Industrial Truck (Forklift)** Two nights, Thursdays, May 2nd, & 9th – 5:00pm to 8:00pm

## **Aerial High Lift** One night, Tuesday, February 20th – 5:00pm to 8:00pm

## **First Aid-CPR** One night, Wednesday, March 13th – 5:00pm to 8:00pm

**Fall Protection** Two nights, Mondays, January 22nd & 29th – 5:00pm to 8:00pm

**Scaffold Safety** One night, Monday, February 26th – 5:00pm to 8:00pm

**Scissor Lift** One night, Thursday, April 25th – 5:00pm to 8:00pm

**Project Management** Wednesday Nights, Begins March 13th – 5:00pm to 8:00pm

This course will concentrate on building the skills necessary to work as a Project Manager, including jobsite procedures and communications.

**Foreman Prep.** Six nights, Wednesday Nights January 24th – 5:00pm to 8:00pm

This six-night class will concentrate on building the skills necessary to work as a Foreman.

**Rigging & Signaling** Three nights, Thursday April 4th, 11th, & 18th – 5:00pm to 8:00pm

This 3-night class covers the OSHA requirement requiring all persons working with cranes to have special training. After passing a test, students receive a rigging/signaling card.

**Intro/Beginning TAB** - Monday nights, Begins January 22nd – 5:00pm to 8:00pm

The purpose of this class is to familiarize a prospective TAB Technician with common operating procedures. These procedures include coding drawings and TAB document setup, familiarization of TAB related tools, collecting data from equipment, duct leakage testing and basic TAB math formulas, ETC. This class is open to Members interested in TAB and members with a TAB certification that have not worked for a TAB contractor yet. This class will also teach the basic principles of test and balance.

**TAB to Certification** Wednesday nights, Begins January 24th – 5:00pm to 8:00pm

This class is for the student who has taken the beginning TAB class and is preparing for the TAB certification test.

**Title 24, Level 1 Technician** Five Tuesdays nights, Begins April 2nd, 9th, 16th, 23rd, & 30th – 5:00pm to 8:00pm

This 5-night class covers the 2019 and the 2022 forms of California's Building Energy Efficiency Standards and steps required by the standards needed to complete the Level 1 forms. **The first 100 members who pass the certification exam will receive \$350.**

**Title 24, Level 2 Acceptance Test Technician** Four Thursday nights, Begins April 4th, 11th, 18th and 25th - 5:00pm to 8:00pm

This class teaches what is needed to pass the ATT certification exam. You must attend all three class nights to be eligible to take the ATT exam. Pre-requisite – Current TABB certification.

**Press Brake Fabrication** Tuesday nights, Begins February 8th – 5:00pm to 8:00pm

This class covers safety as well as the basics of operation on large hydraulic press brakes that you may encounter in a sheet metal shop.

**Trimble** Four nights Wednesday, Begins April 3rd, 10th, 17th & 24th - 5:00pm to 8:00pm

This class is equally divided into classroom lessons and practical field layout in our own field lab. This class teaches how to operate Trimble Robotic Total Station through both WLAN & Radio Frequency using both the new Kenai and Yuma 2 Tablet. Lessons will include how to layout duct hangers, deck openings, wall openings, underground layout and even capturing existing field conditions. Class maximum 8 persons.

**\*NEW CLASS\*** **Welding – Laser Training** – One night, Thursday, February 8th- 5:00pm to 8:00pm

Pre-requisites: Must be a certified welder **\*Class limited to the first 10 people that sign up\***

Laser beam welding (LBW) is a powerful and versatile welding process that uses a focused beam of light to melt and join metals. In this process, a high-powered laser generates a concentrated beam of light that is directed onto the weld joint. LightWELD handheld laser welding and cleaning systems are fast, easy to learn and operate, and produce high quality, consistent results across a wide range of materials and thicknesses.

**Welding – Beginning/Intermediate** Tuesday nights – 5:00pm to 8:00pm. Begins January 23rd – 5:00pm to 8:00pm

This basic welding course will give students the knowledge and tools to become competent in welding. Class will begin with basic welding electricity and power sources, which will lead into all welding processes in the weld lab.

**Welding to Certification** Monday and/or Wednesday nights. Begins January 22nd – 5:00pm to 8:00pm

Certified welders are always in demand. Many welding jobs require certification. Without certified welders our union will forfeit jobs to other trades or non-union workers.

- The welding classes are **open entry**. Students will work at their own pace. The classes train you to pass the written and practical test for the Los Angeles City license or AWS Certification.
- All Los Angeles City certification fees will be paid by the J.A.T.C. upon presentation of the certificate. It is the JATC's goal to certify every welder and to maintain the edge in training.

**SUMMER SESSION**

**Mondays and/or Wednesdays nights.**

**Begins June 3rd – July 3rd - 5:00 to 8:00 pm**

- ❖ **Welding to Certification** Monday and/or Wednesday nights. Begins June 3rd
- ❖ **L.A. City Prep.** Monday nights. Begins June 3rd  
Comprehensive class that will cover “Part 1 - Department Examination” aka the “written” portion of the L.A. City exam. Mainly covering the usage of the AWS D1.1 Structural code book.
- ❖ **AutoCAD Open Lab** Monday and/or Wednesday nights Begins June 3rd  
The large computer lab will be opened for students to use/practice, with an instructor, on the full suite of Autodesk programs.



To register for classes, visit our website at <http://www.socalsma.org/signup> or contact Max Lai at (626) 968-3340 x 118 or email him at [MaxL@socalsma.org](mailto:MaxL@socalsma.org)