



LOCAL 39

TRAINING DEPARTMENT

NEW FOR SPRING 2019

**ONLINE
ENROLLMENT**
*now available
for all classes.
page 8*

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Training
Courses**
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**9-Week &
18-Week
Training
Courses**
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**OPEN
ENROLLMENT**
Monday,
November 12,
2018 through
Monday,
December 24,
2018



Apprentices in all locations.

Spring 2019 COURSE CATALOG

Business Manager's Update



LOCAL 39 TRAINING DEPARTMENT

San Francisco
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San Francisco, CA 94124
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fax: (415) 285-6916

Sacramento
1513 Sports Drive, Suite 150
Sacramento, CA 95834
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www.local39training.org

Spring 2019

Dear Brothers and Sisters,

As we prepare for the Spring semester of training, I am pleased to report that the number of newly indentured apprentices has increased and, although our numbers could still be higher, we are heading in the right direction.

Over the past 12 months, your Training Director, and I have worked diligently on relocating the Sacramento Training Center, and, barring any unforeseen obstacles, I am pleased to announce that we are in escrow on a 10,000 square foot facility, a massive upgrade from the current center that is approximately 3,000 square feet. In an effort to provide the best for our members, the training team intends to turn the new facility into a first-class center. Tim and I will be working closely together to ensure this goal and look forward to seeing it come to fruition.

On another note, the training center is also adding some great relevant materials such as Indoor Air Quality Seminars and Master Keying Seminars in this edition of your training catalog. We have also recently seen a shift to solderless technology. This has been a very efficient move both removing the need for "hot work permits" and saving your employers time and money. The training department has purchased the tools to utilize solderless technology on both ACR and traditional copper water fittings.

Lastly, in tandem with the government's newly required EEOC training compliance, all newly indentured apprentice engineers received additional Labor History training.



Fraternally,

A handwritten signature in black ink that reads "Bart Florence".

Bart Florence

Business Manager-Recording Secretary



HOW TO ENROLL

Stationary Engineers Local 39 Training Department reserves the right to change our fee categories, registration terms and conditions, to make changes to any of our courses, certification classes and seminars described in this catalog, or to change a course location, or cancel a course/class at any time without liability.

Our Training Programs are only available to Local 39 Members in Good Standing. Local 39 Members who are on "Withdraw" Status are allowed to register for classes as long as they have properly withdrawn from the Union. The withdrawn member may take classes for a period covering two full semesters or one year at the "Member of Non-Contributing Employer" rate from the date of withdraw. Thereafter the Member would not be eligible to register and take any more classes until re-employed by another Union employer under contract. We no longer accept registrations from non-members with the exception of the High Rise Fire Director Certification and Renewal Classes. Active members must provide their IUOE Local 39 Membership Card Union Register Number when registering for a course/class and must show their ID card upon Check-In at the Training Facility or at the Jobsite.

Online enrollment for training classes is available for all Local 39 members. To register for courses, visit www.local39training.org. You'll need to register on the website in order to view the course catalog online. Once you've registered and logged in, you may browse the catalog on the website and select the courses for which you wish to enroll. Once you've finished making your selections, you can pay for your courses via PayPal, using your PayPal account or a credit card.

		S	M	T	W	T	F	S	Start Date	Times	
SAC	\$165A139C							S	5/7/2016	12:30 pm to 4:30 pm	Select Training --- \$40.00
SF	\$165F139B							S	4/30/2016	12:30 pm to 4:30 pm	Select Training --- \$40.00

*Add the course to your Shopping Cart by selecting the **Select Training** button next to the course. You can view your shopping cart by selecting the **View Cart** button. Once you have finished adding your courses, click on the **Proceed to Check Out** button in the shopping cart.*

Early Registration is encouraged to ensure we have enough participants to hold a course/class. A pull-out registration form is provided for you in the center of this catalog and on our website at www.local39training.org. Registration forms that are incomplete or do not include your Union ID number or a form of payment will not be processed, and space WILL NOT be held.



We accept VISA, MASTER CARD, AMERICAN EXPRESS AND DISCOVER credit cards. If your ATM card features any of the above symbols, it will be accepted as well. Save yourself time by simply completing the registration form and faxing it to our office at (415) 285-6916.

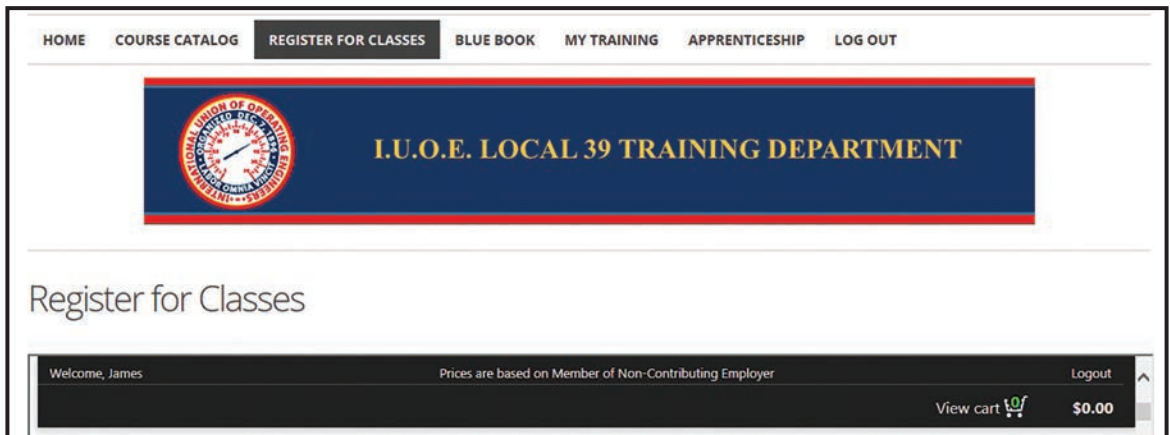


FEE CATEGORIES

Member of a Contributing Employer: A Local 39 member whose employer contributes money to the Local 39 Training Fund annually by Union contract. This member receives the lowest registration rate for Local 39 sponsored classes and seminars. If the student registers for a full semester, job-related course at a community college or regional occupation center, (with prior approval) Local 39 Training Department will reimburse the student a maximum amount of seventy-five dollars of the registration fee per semester, pending successful completion of the class with a passing grade.

Member of a Non-Contributing Employer: A Local 39 member whose employer does not contribute money to the Training Fund. This member receives a higher registration rate than a member of a contributing employer. Registration for a full semester, job-related course at a community college or regional occupational center is not subject to reimbursement by the Local 39 Training Department.

Affiliate Rate: Local 39 Agency Fee Payers are welcome to register for classes at a higher registration rate than that of a member of a contributing or non-contributing employer.



EQUAL OPPORTUNITY PLEDGE

(Updated July 10, 2017)

Position on Discrimination, Harassment, Intimidation, and Retaliation

Northern California & Northern Nevada Stationary Engineers Joint Apprenticeship and Advisory Committee and Stationary Engineers Local 39 Joint Apprenticeship Committee of Northern Nevada (collectively referred to as "Stationary Engineers Joint Apprenticeship Committee") are committed to maintaining apprenticeship programs free from discrimination, harassment, intimidation, and retaliation.

Equal Opportunity Pledge

Stationary Engineers Joint Apprenticeship Committee, as a sponsor, will not discriminate against apprenticeship applicants or apprentices based on race, color, religion, national origin, sex (including pregnancy and gender identity), sexual orientation, genetic information, or because they are an individual with a disability or a person 40 years or older.

Stationary Engineers Joint Apprenticeship Committee, as a sponsor, will take affirmative action to provide equal opportunity in apprenticeship and will operate the apprenticeship program as required under Title 29 of the Code of Federal Regulations, part 30, and equal employment opportunity regulation of the State of California and State of Nevada.



ADDITIONAL FEES:

Transcripts and verification of records from previous semesters are available for an administrative fee of \$50.00 per request. All requests must be submitted in writing to the administrative office and include the timeframe in which the classes were taken, along with your Local 39 Union Register ID Number.

Fees incurred due to non-sufficient fund checks or declined credit card payments will be charged to the student.

ATTENDANCE POLICY

For seminars, the registered students must attend the entire seminar to get a certificate of completion. For 18 week courses, the maximum number of absences allowed are two. After that the instructor has to talk to the coordinator to make sure that the student does not fall too far behind. For multi day seminars, the student will only get a certificate if they complete the full seminar.

EXPLANATION OF CLASS SCHEDULE

S17SF000A
Course code

When looking at the course listings, please note that they are color coded by location. The location colors below should help you to find courses in your preferred location. The second item is the course code. This includes the semester and year, the location and the course ID.

Location colors:

CONCORD	SACRAMENTO
FRESNO	SAN FRANCISCO
HAYWARD	SAN JOSE
RED BLUFF	RENO

REFUND/CANCELLATION POLICY

Full refunds will be issued when a class is sold out or has been cancelled. Registrants who wish to withdraw or transfer to another class must notify the Local 39 Training Department seven business days prior to the start of the class, course or seminar to receive a full refund. No refunds will be issued for late notifications.

WEBSITE INFORMATION

The Local 39 Training Department website can be accessed at www.local39training.org. The site offers information on training courses, Apprenticeship, upcoming seminars and current news.

Spring 2019

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Open enrollment will be held from Monday, November 12, 2018 through Monday, December 24, 2018 for all 9-week and 18-week courses beginning in January 2019.

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SAN JOSE

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SAN FRANCISCO

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RENO

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Online Enrollment for all Courses/Seminars



HOW TO ENROLL ONLINE

To view this catalog and enroll in classes, visit www.local39training.org. Once you have registered and logged in, you can select courses to enroll in. Once you've finished making your selections, you can purchase using PayPal or a credit card.

This screenshot shows the "Log In" section of the I.U.O.E. Local 39 Training Department website. At the top, there is a navigation bar with links: HOME, COURSE CATALOG, REGISTER FOR CLASSES (highlighted), BLUE BOOK, MY TRAINING, APPRENTICESHIP, and LOG OUT. Below the navigation bar is a blue banner with the I.U.O.E. Local 39 logo on the left and the text "I.U.O.E. LOCAL 39 TRAINING DEPARTMENT" in yellow. The main heading is "Register for Classes". Underneath, the "Log In" section contains a form with fields for "Member number:" and "Password:". The member number field has a placeholder text "Enter your Union Member Number here". Below the password field is a link "Forgot password? Reset it...". A "Log In" button is positioned to the right of the password field. At the bottom left of the form, there is a link "First time here? Click here to register" with a green background.

*If this is your first time to the website or you forgot your login information, please select the **Click here to Register** link. You will need your Member Number, Last Name, Birthdate and an email address to register or reset your login information. Members are usually granted access, while Non-Member accounts are reviewed and could take a few business days.*

This screenshot shows the "Register" section of the I.U.O.E. Local 39 Training Department website. The heading is "Register for Classes". Below it, the "Register" section contains a form with two tabs: "I am a member of Local 39" (selected) and "Not a member of Local 39". The form has fields for "Member number:", "Last name:", "Birth date:", and "Email:". The "Last name:" field has a placeholder "Required". The "Birth date:" field has a placeholder "Required - format d/m/yyyy (i.e. 4/9/1995)". The "Email:" field has a placeholder "Required". At the bottom right of the form are "Register" and "Cancel" buttons. To the right of the form, there is a blue box with a question mark icon and the text "Please enter all required information." Below this, it says "Member number: This is the union member number which was assigned to you when you joined the union. It is also known as your I.U.O.E. number." and "Please enter this number exactly as it is displayed on your member card." There is also a small I.U.O.E. Local 39 logo in the bottom right corner of the blue box.



Online courses are designed to allow students to continue learning at their convenience. We offer a variety of courses and we are constantly working to bring new courses to our students. Students who successfully complete an online training course will receive a certificate of completion.

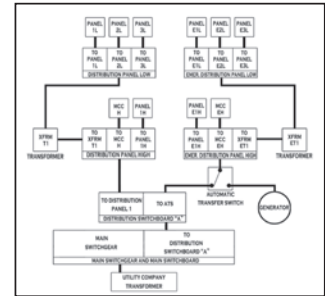
Building Systems

Category: Introductory Courses

In this course, you will be introduced to the basic operations and functions of the mechanical, plumbing, electrical systems and other systems which are commonly found in a commercial building. Students are prepared for further studies into the more particular trade skills required to operate a building as a professional Stationary Engineer. Those interested in entering the trade or utilities personnel interested in preparing themselves to become Stationary Engineers will find this instruction very helpful.

This course covers:

- Electrical equipment and electrical distribution
- Components of the plumbing system in a commercial facility
- Heating, ventilation and air conditioning equipment, (HVAC)
- Steam-generating equipment in commercial buildings
- Central control systems for management of facility operation
- An overview of life safety systems including fire control and fire signaling equipment



Building electrical system

Electrical Basics

Category: Electricity

This course introduces you to basic electrical principles, electrical safety, and electrical applications and equipment in your facility.

This course covers:

- Electrical theory: Principles, quantities, and relationships
- Fundamental electrical devices and circuit types
- Electrical safety: Staying alive while working with high voltages
- Tools and test instruments for troubleshooting electrical systems
- Alternating current: Principles, applications, and system types
- Transformers: Different means of converting voltages
- Conductors: Choosing safe wire sizes, installing conduit, and tapping busbars
- Circuitry: Power-distribution devices, overload protection, and schematic diagrams
- Basic electrical devices: resistors, inductors, and capacitors

Member of Contributing Employer	\$20
Member of Non-Contributing Employer	\$90
Affiliate Rate	\$150

Electricity and Automation for HVAC/R

Category: Cooling Equipment

Member of Contributing Employer	\$20
Member of Non-Contributing Employer	\$90
Affiliate Rate	\$150

This course introduces electrical and automatic equipment as they relate to refrigeration and cooling systems.

This course covers:

- Basic Electricity and Magnetism
- Introduction to Automatic Controls
- Components and Applications
- Troubleshooting Basic Controls
- Advanced Automatic Controls
- Electric Motors in Refrigeration



Fire Alarm Signaling Systems

Category: Safety

Member of Contributing Employer	\$20
Member of Non-Contributing Employer	\$90
Affiliate Rate	\$150

This course demystifies fire alarm systems and prepares you to manage those systems' testing, scheduled maintenance, and mandatory repairs. Students will learn about how Fire Alarm Signaling Systems interact with most of a building's major operations, and will understand how to oversee their operations.

This course covers:

- Building and Fire Code
- Types of Systems
- Basic System Architecture
- Operation Sequence
- Addressable Configuration
- Smoke and Fire Containment





Spring 2019 ONLINE TRAINING

Introduction to Chillers and Cooling Towers

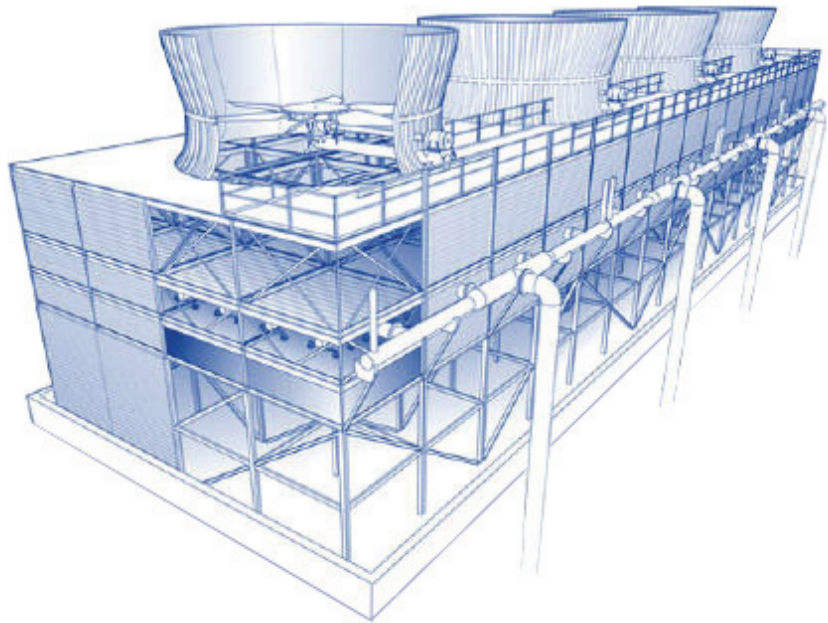
Category: *Cooling Equipment*

Member of Contributing Employer	\$20
Member of Non-Contributing Employer	\$90
Affiliate Rate	\$150

This course introduces you to chilled-water cooling equipment and cooling towers, as used in large-scale refrigeration and cooling systems.

This course covers:

- Refrigeration Principles (a quick review)
- Cooling-System Components
- Compression-Cycle Chillers
- Absorption Chillers
- Cooling Towers and Related Controls



Online Learning Center

Our online course delivery has been updated to make taking online training even easier than before. After purchase and approval of enrollment, you access your course from the Local 39 Training Department website. You will receive an email with information to launch your class and start working.

Completion progress is tracked in each class on the right side of your screen. Navigate by using the Course Contents box or from the overview screen. Throughout the courses, new vocabulary terms or concepts are linked to a glossary. Transcripts of your online courses or assistance with online training may be obtained by contacting the Online administrator, at support@local39training.org.



LEED and Green Building Overview

Category: LEED/Green Buildings

Member of Contributing Employer	\$20
Member of Non-Contributing Employer	\$90
Affiliate Rate	\$150

LEED (Leadership in Energy and Environmental Design) certification is an internationally recognized standard for designing, operating, and maintaining buildings in environmentally sound ways.

This course covers:

- Steps to LEED certification: categories and credits
- Benefits of LEED certification, with case studies
- “Green building” principles, and why they matter
- Stationary engineers’ LEED role
- Strategy and planning for LEED certification



LEED: Water Efficiency Credits

Category: LEED/Green Buildings

Member of Contributing Employer	\$20
Member of Non-Contributing Employer	\$90
Affiliate Rate	\$150

This course shows you how to certify your existing building under the LEED Water Efficiency category. It demonstrates how to meet the eligibility prerequisite, and how to earn certification credits by improving your facility’s water performance. The course covers:

This course covers:

- Water usage: Baseline measurement and performance metering
- Fulfilling the prerequisite: Minimum fixture and fitting efficiency
- Water-efficient plumbing fixtures and maintenance practices
- Water-efficient landscaping practices and devices
- Improving cooling-tower water management
- Certification overviews: Investments and paybacks

Mold!

Category: Safety

Member of Contributing Employer	\$20
Member of Non-Contributing Employer	\$90
Affiliate Rate	\$150

In this course, you will learn the fundamentals of mold growth, how mold can contaminate your facility, and how to reduce or remove mold’s effects.

This course covers:

- Specific Mold Types and Their Effects
- How to Prevent Mold Growth
- How to Assess Suspected Mold Growth
- How to Remediate (clean up and correct) Mold and Its Sources





Principles of Thermodynamics

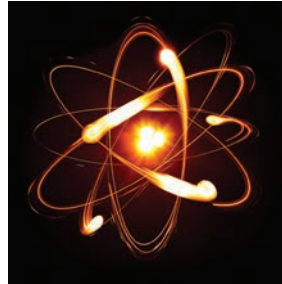
Category: *Cooling Equipment*

Member of Contributing Employer	\$20
Member of Non-Contributing Employer	\$90
Affiliate Rate	\$150

This course explores the principles of thermodynamics as they relate to refrigeration and cooling systems. Students will learn the best safety practices in dealing with equipment, as well as both the scientific and practical components of maintaining cooling systems. Cooling systems are a critical part of a facility's operation and essential part of the Stationary Engineer's knowledge.

This course covers:

- General Safety Practices
- Theory
- Matter and Energy
- Refrigeration and Refrigerants
- Indoor Air Quality
- Comfort and Psychrometrics



Understanding Airflow

Category: *Airflow*

Member of Contributing Employer	\$20
Member of Non-Contributing Employer	\$90
Affiliate Rate	\$150

This course is designed to introduce the student to the theoretical and practical applications of basic airflow utilized within a building. Students learn about the duct systems and the mechanical components used to deliver airflow, as well as the importance of proper airflow delivery. These will include instruments, formulas and charts used to assess the amount of airflow. Additional studies include AK factor, air changes per hour, fan laws, stratification, as well as rules and regulations. Students will need to have access to the internet, a computer and have some familiarity with a computer.





Steam Boiler Water Treatment Basics - Scale Control

Category: Water Treatment

Member of Contributing Employer	\$20
Member of Non-Contributing Employer	\$90
Affiliate Rate	\$150

In this course, you learn the fundamentals of water chemistry and how to apply these principles to the maintenance of steam boilers. The course focuses on how to control the buildup of scale (mineral solids). Controlling scale helps steam boiler equipment last longer and operate more efficiently, which translates into substantial cost savings.

This course covers:

- Principles of Water Chemistry
- Concentration, Solubility, and Solubility Limits
- Mineral Scale
- Conductivity
- Water Softeners and Maintaining Optimum Efficiency
- Chemical Control Programs
- Chemical Testing Procedures



Reminder...

When you register or are enrolled for a course or seminar at one of our facilities or at a job site, you are required to provide your Union membership information upon check-in.

Be sure to have your current Union Membership Card with you when you attend a course or seminar for the first session, or you may not be allowed to attend.





Spring 2019 Training Courses

Training courses are well-suited for both aspiring engineers and engineers who want to enhance and update their current skills. Students who successfully complete a class and receive a grade of "C" or above will receive a certificate of completion from the Local 39 Training Department.

Open enrollment will be held from Monday, November 12, 2018 through Monday, December 24, 2018 for all 9-week and 18-week courses beginning in January 2019.

AIR CONDITIONING & REFRIGERATION II

		S	M	T	W	T	F	S	Start Date	Times
HY	S19HY112A					◆			01/17/2019	5:00 pm to 8:00 pm
SF	S19SF112A		◆						01/14/2019	5:30 pm to 8:30 pm

18-Weeks, 3 Hours Per Session, 54 Hours Total. Textbook not included.

Prerequisite: Air Conditioning and Refrigeration I

This course is a continuation of Air Conditioning & Refrigeration I and will instruct the student in the different types of heating systems, combustion controls, psychrometrics and airflow for air conditioning systems. It will also include schematic reading, basic heat pump operation, as well as an introduction to cooling towers and water cooled systems.

Member of Contributing Employer	\$75
Member of Non-Contributing Employer	\$500
Affiliate Rate	\$600

BOILERS

		S	M	T	W	T	F	S	Start Date	Times
SF	S19SF030A		◆						01/14/2019	5:30 pm to 8:30 pm

18-Weeks, 3 Hours Per Session, 54 Hours Total. Textbook Included.

Prerequisite: None.

This course covers the basic operation of low and high-pressure boilers. Students will learn how to determine boiler types and styles, water treatment chemistry and troubleshooting. Field trips may be required as part of this course.

Member of Contributing Employer	\$75
Member of Non-Contributing Employer	\$500
Affiliate Rate	\$600

ELECTRICITY & ELECTRIC MOTOR CONTROLS II

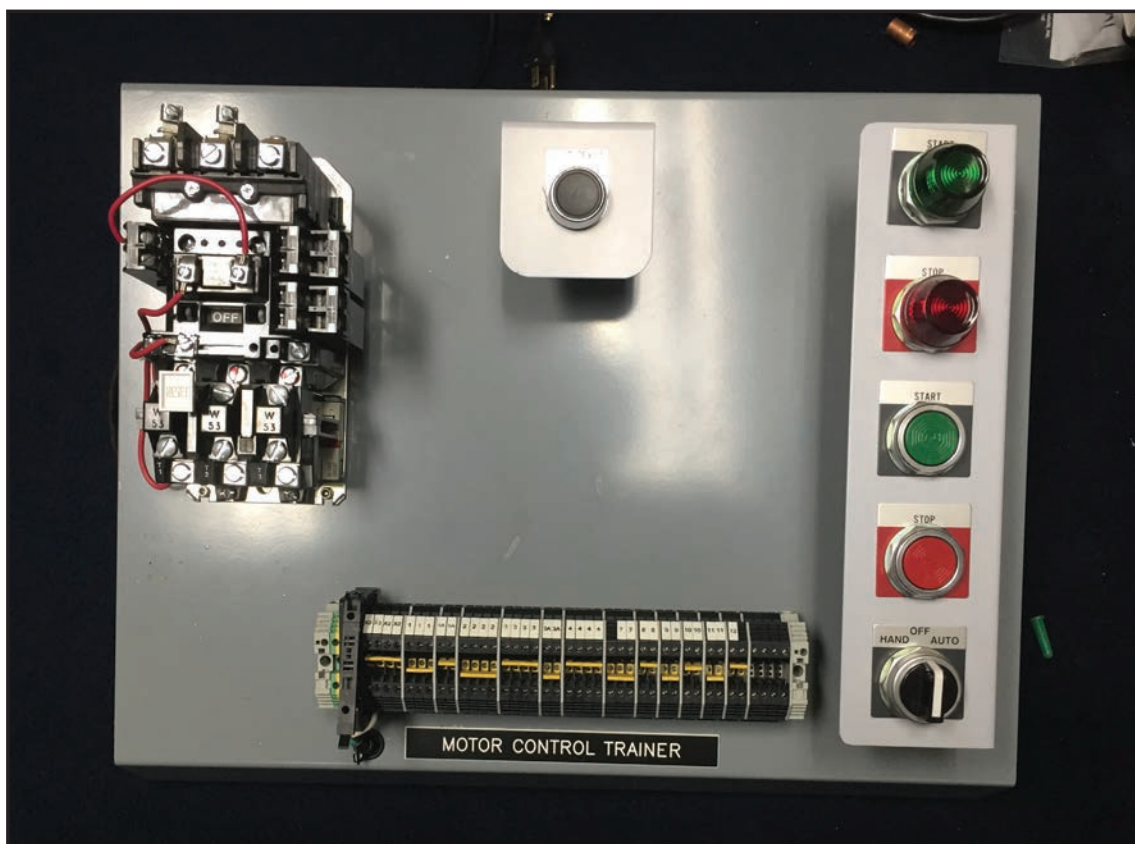
		S	M	T	W	T	F	S	Start Date	Times
SF	S19SF316A				◆				01/16/2019	5:30 pm to 8:30 pm

18-Weeks, 3 Hours Per Session, 54 Hours Total. Textbook Not Included.

Prerequisite: Electricity & Electric Motor Controls I.

The student will continue to gain an understanding of the electrical concepts needed by a Stationary Engineer to understand Electricity and Electrical Troubleshooting techniques. The student will also learn various types of electric controls used in building control and motor control systems and will gain the ability to construct and analyze wiring and ladder diagrams used in these types of control circuits.

Member of Contributing Employer	\$75
Member of Non-Contributing Employer	\$500
Affiliate Rate	\$600





Spring 2019 Training Courses

INTRODUCTION TO SPREADSHEETS

		S	M	T	W	T	F	S	Start Date	Times
SF	S19SF003A		◆						01/14/2019	5:30 pm to 8:30 pm

18-Weeks, 3 Hours Per Session, 54 Hours Total. Textbook Not Included.

Prerequisite: A basic understanding of computers and MS Excel.

This course will enhance an engineer's present skill and also enable him/her to continue to develop spreadsheets. These skills assist the engineer in better managing the engineering department, by increasing analytical skills, and enhancing contributions to the management team as a whole. The student will learn to create worksheets, which increases productivity and assists in overall building efficiency and cost control. The following topics will be included in the student's classroom exercises:

Member of Contributing Employer	\$75
Member of Non-Contributing Employer	\$500
Affiliate Rate	\$600

- Calculating ROI (return on investment) for ECMs (energy conservation measures).
- Tracking and analyzing Utilities.
- Accruals and Variance Reporting for Engineering Budgeted Expenses, including Utilities.
- Budgeting for all Engineering related accounts, including Utilities and Tenant Billbacks.
- Tracking Expenses and developing purchase orders.
- Developing RFPs (request for proposal) for projects requiring three (3) bids
- Tracking Permits and Critical Dates.
- Creating various forms/logs used by Engineers:
 - Shift routines and rounds, chillers, generators, fire pumps, FLS (fire life safety system) testing history, refrigerant management, record utility consumption.
- Air balancing calculations using fan laws.
- Sub-metering techniques for calculating above standard use utility use: Server and IDF Room electrical, heat pumps, CRAC units, etc.
- Facility Emergency Planning and employee safety training.
- HazCom facility written program development.
- Preventative Maintenance Administration.
- Employee Attendance spreadsheet for tracking: vacations, sick leave, float holidays, etc.



Spring 2019 Training Courses



LOCKSMITHING II

		S	M	T	W	T	F	S	Start Date	Times
SF	S19SF121A		◆						01/14/2019	5:00 pm to 8:00 pm

18-Weeks, 3 Hours Per Session, 54 Hours Total. Textbook Not Included.

Prerequisite: Locksmithing I. This course is a continuation of Locksmithing I. Students will study and discuss topics such as master keying, electronic locks, computer control systems, developing master codes systems, lock repairs, record keeping, advance pinning with high security cylinders.

Member of Contributing Employer	\$75
Member of Non-Contributing Employer	\$500
Affiliate Rate	\$600



SUPERVISION (Chief / Assistant Chief)

		S	M	T	W	T	F	S	Start Date	Times
SF	S19SF029A							◆	02/02/2019	8:00 am to 4:30 pm

6-Weeks, 8 Hours Per Session, 48 Hours Total. Textbook Included.

Prerequisite: None.

This course will enhance an engineer's present skills and also enable him / her to continue to develop into a successful Assistant or Chief Engineer. Subjects include budget preparation, record keeping, reports, presentations, human relations, planning, time management, computer applications, health and safety issues, and energy conservation.

Member of Contributing Employer	\$75
Member of Non-Contributing Employer	\$500
Affiliate Rate	\$600



Spring 2019 Certification Classes and Courses

The following classes offer industry-standard certifications for Stationary Engineers.



Open enrollment will be held from November 12, 2018 through Monday, December 24, 2018 for all 9-week and 18-week courses beginning in January 2019.

Reminder...

When you register for a course or seminar, you are required to provide your Union membership information.

Be sure to have your current Union Membership Card with you when you attend your course or seminar for the first session, or you may not be allowed to attend. The administrative staff will verify your eligibility upon check-in.



Spring 2019 Certification Classes and Courses



EPA TECHNICIAN CERTIFICATION PREPARATION, REVIEW AND EXAM

		S	M	T	W	T	F	S	Start Date	Times
FR	S19FR039A				◆				03/13/2019	8:00 am to 4:30 pm
SAC	S19SA039A							◆	01/26/2019	8:00 am to 4:30 pm
SAC	S19SA039B							◆	03/23/2019	8:00 am to 4:30 pm
SAC	S19SA039C							◆	05/25/2019	8:00 am to 4:30 pm
SF	S19SF039A							◆	02/23/2019	8:00 am to 4:30 pm
SF	S19SF039B							◆	04/27/2019	8:00 am to 4:30 pm
SF	S19SF039C							◆	06/08/2019	8:00 am to 4:30 pm
RB	S19RB039A				◆				05/01/2019	8:00 am to 4:30 pm

1 Session, 8 Hours Total.

Prerequisite: A basic understanding of the refrigerant cycle.

This class is recommended for those who have not previously taken the EPA exam. This eight-hour class will provide six hours of review for the CFC/EPA Certification Exam and a two-hour CFC/EPA Universal testing period. Topics include refrigeration, charging, transportation, recycling, and recovery of chlorofluorocarbons. The EPA requirements covered in this review prepare the student for all levels of certification, (Type I, Type II, Type III and Universal).

Member of Contributing Employer	\$50
Member of Non-Contributing Employer	\$300
Affiliate Rate	\$400

EPA TECHNICIAN CERTIFICATION REVIEW & EXAM

		S	M	T	W	T	F	S	Start Date	Times
FR	S19FR139A				◆				03/13/2019	12:30 pm to 4:30 pm
SAC	S19SA139A							◆	01/26/2019	12:30 pm to 4:30 pm
SAC	S19SA139B							◆	03/23/2019	12:30 pm to 4:30 pm
SAC	S19SA139C							◆	05/25/2019	12:30 pm to 4:30 pm
SF	S19SF139A							◆	02/23/2019	12:30 pm to 4:30 pm
SF	S19SF139B							◆	04/27/2019	12:30 pm to 4:30 pm
SF	S19SF139C							◆	06/08/2019	12:30 pm to 4:30 pm
RB	S19RB139A				◆				05/01/2019	12:30 pm to 4:30 pm

1 Session, 4 Hours Total.

Prerequisite: A basic understanding of the refrigerant cycle and/or previous completion of the Technician Certification for Refrigerants online course.

This four-hour class is designed specifically for students who have already taken the Preparation, Review and Exam class. The class includes a review for the CFC/EPA Certification Exam and a two-hour CFC/EPA Universal testing period. The EPA requirements covered in the review prepare the student for all levels of certification, (Type I, Type II, Type III and Universal).

Member of Contributing Employer	\$40
Member of Non-Contributing Employer	\$300
Affiliate Rate	\$400



Spring 2019 Certification Classes and Courses

HIGH RISE FIRE SAFETY DIRECTOR

		S	M	T	W	T	F	S	Start Date	Times
SAC	S19SA023A				◆				01/23/2019	5:30 pm to 8:30 pm
SF	S19SF023A		◆						01/14/2019	5:00 pm to 8:00 pm
SF	S19SF023B		◆						04/15/2019	5:00 pm to 8:00 pm
SF	S19SF023C				◆				01/16/2019	5:00 pm to 8:00 pm
SF	S19SF023D				◆				03/27/2019	5:00 pm to 8:00 pm

9 Weeks, 3 Hours Per Session, 27 Hours Total. Textbook Included.

Prerequisite: None.

This course meets and exceeds the requirements of the California Code of Regulations, Title 19 and the City of San Francisco Fire Code as it pertains to the certification of High Rise Fire Safety Directors. The course provides instruction in preparing and updating facility emergency plans, fires prevention guidelines, and a comprehensive review of a buildings fire life safety systems as well as a review of proper evacuation and/or relocation procedures. The course will also provide a general review applicable to all buildings of proper building preparation and response to medical, earthquake, hazardous materials release, bomb threat and civil unrest.

Member of Contributing Employer	\$75
Member of Non-Contributing Employer	\$450
Affiliate Rate •	\$550

A course term paper and successful performance on two multiple choice tests are required for completion of this course. *The High Rise Fire Safety Director Certification is valid for five (5) years from the date of the class. Certificate of completion is accepted by all cities and fire departments in the San Francisco Bay Area.*

HIGH RISE FIRE SAFETY DIRECTOR RENEWAL

		S	M	T	W	T	F	S	Start Date	Times
SF	S19SF123A		◆						02/11/2019	11:00 am to 2:00 pm
SF	S19SF123B		◆						03/11/2019	11:00 am to 2:00 pm
SF	S19SF123C		◆						04/08/2019	11:00 am to 2:00 pm
SF	S19SF123D					◆			05/09/2019	5:00 pm to 8:00 pm
SJ	S19SJ123A		◆						03/11/2019	5:00 pm to 8:00 pm

←
← **MORNING COURSES!!**
←

1 Session, 3 Hours Total. Textbook Included.

Prerequisite: Registrant must possess a valid Fire Safety Director Certificate: A copy of your valid certificate must be submitted with your registration form.*

This class provides an overview of current federal, state and local laws, codes and policies as well as an overview of the responsibilities of a High Rise Fire Safety Director. This class includes a question and answer session and suggestions on how to handle specific issues at your facility.

Member of Contributing Employer	\$50
Member of Non-Contributing Employer	\$300
Affiliate Rate •	\$400

***You are eligible to renew if your current certificate's date does not exceed 5 years. The certificate renewal is valid for 5 years from the date of the class.**

***Open Registration at the Affiliate Rate has been extended to non-members who work at a jobsite/facility that is under contract with the Stationary Engineers Local 39 Union. This exception is only for the 9wk High Rise Fire Safety Director Certification Course and the 3hr Renewal Class.**

Spring 2019 Certification Classes and Courses



NFPA 70E - LOW VOLTAGE ELECTRICAL SAFETY CERTIFICATION

		S	M	T	W	T	F	S	Start Date	Times
CN	S19CN179A					◆			02/21/2019	8:00 am to 4:30 pm
FR	S19FR179A				◆				06/05/2019	8:00 am to 4:30 pm
HY	S19HY179A					◆			01/24/2019	8:00 am to 4:30 pm
SAC	S19SA179A				◆				04/24/2019	8:00 am to 4:30 pm
SAC	S19SA179B				◆				05/08/2019	8:00 am to 4:30 pm
SF	S19SF179A			◆					01/22/2019	8:00 am to 4:30 pm
SF	S19SF179B			◆					03/19/2019	8:00 am to 4:30 pm
SJ	S19SJ179A			◆					02/05/2019	8:00 am to 4:30 pm
RB	S19RB179A				◆				06/12/2019	8:00 am to 4:30 pm

1 Session, 8 Hours Total. Textbook Included.

This class is a prerequisite for the NFPA 70E - High Voltage Electrical Safety Certification.

This program meets the requirements of NFPA 70E and OSHA 1910.300 series for working around or on electrical equipment.

This is a safety certification class for people working with electricity in the workplace. This program covers low voltage electrical safety, the hazards of working with electrical systems and safe working practices. These laws apply to all areas of Stationary Engineering and other mechanical related fields for Buildings, Hospitals, Production Facilities, Water and Wastewater Plants. The low voltage electrical safety class is good for up to 600 volts. Above that value the high voltage certification class is needed. **Certification is valid for 3 years from class date.**

Member of Contributing Employer	\$50
Member of Non-Contributing Employer	\$300
Affiliate Rate	\$400

NFPA 70E - HIGH VOLTAGE ELECTRICAL SAFETY CERTIFICATION

		S	M	T	W	T	F	S	Start Date	Times
CN	S19CN279A					◆			03/21/2019	8:00 am to 4:30 pm
HY	S19HY279A					◆			03/07/2019	8:00 am to 4:30 pm
SAC	S19SA279A				◆				05/29/2019	8:00 am to 4:30 pm
SF	S19SF279A					◆			02/07/2019	8:00 am to 4:30 pm
SF	S19SF279B			◆					04/02/2019	8:00 am to 4:30 pm
SJ	S19SJ279A			◆					03/05/2019	8:00 am to 4:30 pm

1 Session, 8 Hours Total. Textbook Included.

Prerequisite: Registrant must possess a valid Local 39 NFPA 70E - Low Voltage Electrical Safety Certificate; A copy of your valid certificate must be submitted with your registration form.

This program meets the requirements of OSHA 1910.269. This is a safety certification class for people working with and around electricity in the workplace. This program covers high voltage electrical safety, the hazards of working with electrical systems and safe working practices. The high voltage electrical safety class is good for voltages from 601 and above. **Certification is valid for 3 years from class date.**

Member of Contributing Employer	\$50
Member of Non-Contributing Employer	\$300
Affiliate Rate	\$400



Spring 2019 Certification Classes and Courses



Spring 2019 Seminars



Our seminars are designed as enhancements to our core 18-week and 9-week courses. Students who successfully complete a seminar will receive a Certificate of Participation (COP) from The Local 39 Training Department.

AUTOMATIC TRANSFER SWITCHES

		S	M	T	W	T	F	S	Start Date	Times
HY	S19HY609A			◆					01/15/2019	8:00 am to 12:00 pm
SAC	S19SA609A			◆					04/09/2019	8:00 am to 12:00 pm
SF	S19SF609A			◆					02/12/2019	8:00 am to 12:00 pm
SJ	S19SJ609A			◆					03/05/2019	8:00 am to 12:00 pm

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MORNING COURSES!!

1 Session, 4 Hours Total.

This class will instruct the students in the basics of automatic transfer switch operation and maintenance and troubleshooting.

Member of Contributing Employer	\$50
Member of Non-Contributing Employer	\$300
Affiliate Rate	\$400

BASIC MOTOR TESTING

		S	M	T	W	T	F	S	Start Date	Times
SAC	S19SA920A				◆				04/17/2019	10:00 am to 1:00 pm
SF	S19SF920A					◆			04/04/2019	10:00 am to 1:00 pm

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←
MORNING COURSES!!

1 Session, 3 Hours Total.

Included with the class is a Fluke 375-FC clamp meter.

Learn how to use the Fluke 375-FC clamp meter to perform some basic motor testing measurements such as the high/low line voltage, voltage/current imbalance, inrush and motor winding resistance checking. Learn more advanced functions such as logging and creating a PM report for motors via a smart phone app. Insulation resistance testing, vibration analysis, laser alignment and thermal imaging will also be discussed.

Member of Contributing Employer	\$375
Member of Non-Contributing Employer	\$525
Affiliate Rate	\$575

BASIC MASTER-KEYING AND PINNING

		S	M	T	W	T	F	S	Start Date	Times
SAC	S19SA801A					◆			04/11/2019	8:00 am to 4:30 pm
SF	S19SF801A					◆			05/09/2019	8:00 am to 4:30 pm
SJ	S19SJ801A					◆			05/23/2019	8:00 am to 4:30 pm

1 Session, 8 Hours Total.

The class will cover the basics of pinning of cylinders how to read a master key system. What types of followers to use, what shims are used for, also how to use a key gauge. This class will emphasize Schlage keys bitting and pinning only.

Member of Contributing Employer	\$50
Member of Non-Contributing Employer	\$300
Affiliate Rate	\$400



Spring 2019 Seminars

BLUEPRINT READING

		S	M	T	W	T	F	S	Start Date	Times
SF	S19SF556A			◆					02/19/2019	8:00 am to 4:30 pm

1 Session, 8 Hours Total.

This course will provide an overview of the theories used in putting drawings on paper and review the terminology found on blueprints commonly used in the maintenance of buildings. The class will include lecture, hands on drills, and skill enhancement exercises.

Member of Contributing Employer	\$50
Member of Non-Contributing Employer	\$300
Affiliate Rate	\$400

BOILER BASICS

		S	M	T	W	T	F	S	Start Date	Times
SAC	S19SA530A					◆			01/31/2019	8:00 am to 3:30 pm

1 Session, 7 Hours Total.

This seminar will provide a fundamental understanding of Boilers Operation and Maintenance. The instructor will cover interlock and limit controls; discussion of low water, airflow-limits, interlocks, pivot valve train, main valve train, and approved safety controls specifications such as flame detection types. This training will also include safe operating procedures and safety control adjustments. Students will learn about the Optimizing Chemical Feed Program, choosing formulas and optimum feed points, and safe handling of chemicals. Hazard concerns will be addressed including reduced handling, improved marking, and disposal for boiler chemicals.

Member of Contributing Employer	\$50
Member of Non-Contributing Employer	\$300
Affiliate Rate	\$400



CENTRIFUGAL CHILLERS

		S	M	T	W	T	F	S	Start Date	Times
SAC	S19SA912A			◆	◆				05/14/2019	8:00 am to 4:30 pm
SF	S19SF912A			◆	◆				02/26/2019	8:00 am to 4:30 pm

2 Sessions, 8 Hours Per Session, 16 Hours Total.

This is a two day program designed to provide detailed information about Centrifugal chillers and their place in the air conditioning community. Workshops break the chillers down into sections, with a complete understanding of each component. The instructor will cover chiller operation to include lift, approach, temperature and pressure relationships and heat exchange mediums. Cooling demand, controls and adjustments. The program involves a detailed understanding of chiller logs and the identification of problems. The student will gain an understanding of proper PM and inspections required to monitor and maintain system efficiency and safety, such as water treatment, cooling towers, refrigerants and mechanical rooms.

Member of Contributing Employer	\$50
Member of Non-Contributing Employer	\$300
Affiliate Rate	\$400

CONFINED SPACE TRAINING

		S	M	T	W	T	F	S	Start Date	Times
SAC	S19SA074A		◆						04/22/2019	8:30 am to 3:30 pm
SF	S19SF074A		◆						04/15/2019	8:30 am to 3:30 pm

1 Session, 7 Hours Total. Manual Included.

Prerequisite: None.

Class size is limited to no more than 12 students for quality instruction, so register early!

This class provides training in accordance with OSHA regulations that provides a basis for the safe entry and work within confined spaces, hazard identification, and the use of specialized equipment to ensure worker safety and health. Students must pass a written exam at the conclusion of class to receive a certification of completion.

Member of Contributing Employer	\$50
Member of Non-Contributing Employer	\$300
Affiliate Rate	\$400

ON-SITE CONFINED SPACE TRAINING

1 Session, 8 Hours Total

On-Site training in this subject will include a practice session of entering a confined space utilizing the site's equipment, tools, and proper PPE.





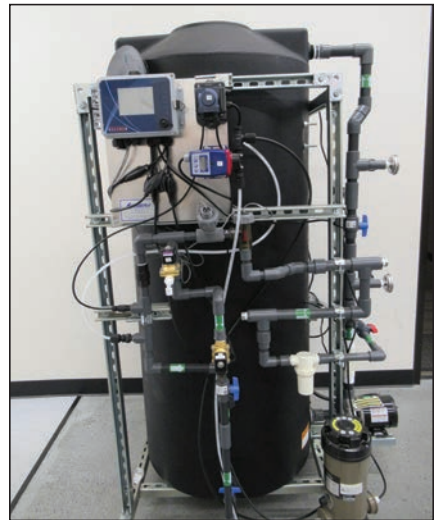
COOLING TOWERS AND WATER TREATMENT

		S	M	T	W	T	F	S	Start Date	Times
HY	S19HY546A							◆	03/16/2019	9:00 am to 3:00 pm
SAC	S19SA546A							◆	04/13/2019	9:00 am to 3:00 pm
SF	S19SF546A							◆	01/26/2019	9:00 am to 3:00 pm
SJ	S19SJ546A							◆	02/23/2019	9:00 am to 3:00 pm

1 Session, 6 Hours Total.

The class will be an introduction to water treatment, mineral in the water and the various challenges of treating those chemicals. The instructor will cover steam boiler water treatment following a water drop through a complicated system. To include pretreatment like water softeners. Also covered will be various closed water loop systems, piping variations and the chemical treatment required. Different types of cooling towers will be covered also. It is encouraged for the students to bring water samples from their building for testing.

Member of Contributing Employer	\$50
Member of Non-Contributing Employer	\$300
Affiliate Rate	\$400



CENTRIFUGAL PUMPS: PRINCIPLES AND OPPORTUNITIES FOR HYDRONIC SYSTEMS

		S	M	T	W	T	F	S	Start Date	Times
SF	S19SF567A			◆					06/11/2019	8:30 am to 4:30 pm

At PEC, 851 Howard Street in SF – 1 Session, 8 Hours Total.

This one-day training will leverage demonstration equipment, operating hydronic loops and building control systems to explore pump system concepts and optimization strategies. Topics will include plotting data on pump curves, pump affinity laws, primary only vs. primary/secondary pumping, changing impeller sizes, variable speed opportunities, net positive suction head and cavitation. Training will include a number of interactive exercises including a functional test of a pump system.

Member of Contributing Employer	FREE
Member of Non-Contributing Employer	FREE
Affiliate Rate	FREE

DIESEL POWERED GENERATORS

		S	M	T	W	T	F	S	Start Date	Times
HY	S19HY612A			◆					01/22/2019	8:00 am to 12:00 pm
SAC	S19SA612A			◆					04/16/2019	8:00 am to 12:00 pm
SF	S19SF612A			◆					02/19/2019	8:00 am to 12:00 pm
SJ	S19SJ612A			◆					03/12/2019	8:00 am to 12:00 pm

1 Session, 4 Hours Total.

This class will instruct the students on the basics of operation, troubleshooting and preventive maintenance of diesel powered generators, (gen sets) In addition, information on the application and design of gen-set and power systems will be covered.

Member of Contributing Employer	\$50
Member of Non-Contributing Employer	\$250
Affiliate Rate	\$300

ENERGY EFFICIENCY UPDATE: STRATEGIES FOR REDUCING ENERGY USE, OPERATING COSTS AND CARBON EMISSIONS.

		S	M	T	W	T	F	S	Start Date	Times
SF	S19SF750A			◆					03/12/2019	8:30 am to 4:30 pm

At PEC, 851 Howard Street in SF – 1 Session, 8 Hours Total.

This one day primer on energy efficiency strategies is intended for building professionals familiar with the basic concepts who want an update on new and emerging technologies and controls. Class will address a wide range of opportunities that can be applied to most commercial facilities and build from no- and low-cost opportunities to deep energy retrofits. Class will also include modules on utility incentives, financial return calculations, interactive measures, incremental cost opportunities, and operations and maintenance considerations. While all strategies presented will be relevant to existing buildings, these same approaches could be applied to new building designs as well.

Member of Contributing Employer	FREE
Member of Non-Contributing Employer	FREE
Affiliate Rate	FREE

ELECTRICITY, BASICS

		S	M	T	W	T	F	S	Start Date	Times
SF	S19SF716A							◆	02/09/2019	8:00 am to 4:30 pm

1 Session, 8 Hours Total.

The student will gain a basic understanding of voltage, current, resistance, and power by practicing the fundamental use of Ohm's Law. The facilitator will cover different approaches to troubleshooting methods through formulas, meter use, individual devices, and circuits. The students will learn to apply safe methods of electrical troubleshooting using hopscotch and tie down techniques. This seminar will also include hands on training in basic circuits.

Member of Contributing Employer	\$50
Member of Non-Contributing Employer	\$300
Affiliate Rate	\$400



Spring 2019 Seminars

ELECTRICAL TROUBLESHOOTING FUNDAMENTALS

		S	M	T	W	T	F	S	Start Date	Times
HY	S19HY817A					◆			04/04/2019	8:00 am to 4:30 pm
SF	S19SF817A				◆				01/16/2019	8:00 am to 4:30 pm

1 Session, 8 Hours Total.

This one day program will enhance the student's ability to diagnose problems with electrical control circuits commonly found within our industry. After a brief review of basic schematic fundamentals, circuit logic, and meter use students will have the opportunity to apply this knowledge in troubleshooting ladder diagrams and motor control circuits through hands-on drills and skills enhancement practices.

Member of Contributing Employer	\$50
Member of Non-Contributing Employer	\$300
Affiliate Rate	\$400

FIRE EXTINGUISHER TRAINING

		S	M	T	W	T	F	S	Start Date	Times
SAC	S19SA738A					◆			05/23/2019	9:00 am to 12:00 pm
SF	S19SF738A				◆				01/16/2019	9:00 am to 12:00 pm
SF	S19SF738B				◆				04/17/2019	9:00 am to 12:00 pm

1 Session, 3 Hours Total.

Train-the-Trainer, Portable Fire Extinguisher Training. Complies with OSHA 29, CFR 1910.157 Standard Portable Fire Extinguishers.

(Weather conditions may alter the class schedule.)

Course will include: Fire behavior, Fire Stages, Fire classes, Extinguisher Types, Extinguishing, and Practical evolutions with live fire. Multiple-choice test included. Certificate as a Fire Extinguisher Trainer will be awarded upon successful completion.

Member of Contributing Employer	\$50
Member of Non-Contributing Employer	\$250
Affiliate Rate	\$300



FIRE PUMP TEST PREPARATORY TRAINING

		S	M	T	W	T	F	S	Start Date	Times
CN	S19CN538A		◆						04/29/2019	9:00 am to 12:00 pm
HY	S19HY538A		◆						03/25/2019	8:00 am to 11:00 am
SAC	S19SA538A					◆			03/14/2019	11:00 am to 2:00 pm
SF	S19SF538A		◆						01/28/2019	5:00 pm to 8:00 pm
SF	S19SF538B		◆						05/20/2019	5:00 pm to 8:00 pm
SJ	S19SJ538A		◆						02/25/2019	5:00 pm to 8:00 pm

←← MORNING SEMINARS

1 Session, 3 Hours Total.

Note: This course does not include the fees for registration to take the OSFM Certification Test.

The purpose and scope of the class is to serve as a coaching course to better prepare a Stationary Engineer to be successful when taking the closed book Office State Fire Marshal (OSFM) multiple-choice Certificate Test on the Weekly Inspection, Testing & Maintenance of Building Fire Pumps. The instructor will provide an overview of the law, guidance on completing the OSFM forms, weekly fire pump test study material, and in-class review of weekly fire pump test procedures and information.

Member of Contributing Employer	\$50
Member of Non-Contributing Employer	\$250
Affiliate Rate	\$300

By California State law, each building must maintain a copy of the NFPA 25 – (Current Edition information will be provided during training), Testing, and Maintenance of Water Based Fire Protection Systems, which is also required for the purpose of class study.





Spring 2019 Seminars

FIRE SPRINKLER INSPECTION FOR ENGINEERS

		S	M	T	W	T	F	S	Start Date	Times
HY	S19HY638A					◆			03/21/2019	9:00 am to 12:00 pm
SAC	S19SA638A					◆			05/30/2019	9:00 am to 12:00 pm
SF	S19SF638A					◆			05/09/2019	10:00 am to 1:00 pm
SJ	S19SJ638A					◆			05/16/2019	10:00 am to 1:00 pm
RN	S19RN638A					◆			02/21/2019	10:00 am to 1:00 pm

**MORNING
SEMINARS!!**

1 Session, 3 Hours Total.

By California State law, each building must maintain a copy of the NFPA 25 - 2013 California Edition Inspection, Testing, and Maintenance of Water Based Fire Protection Systems.

This seminar will provide an overview of the NFPA 25 - 2013 California Edition of visual inspection criteria for fire sprinkler systems, standpipes, and fire pumps. The instructor will make a presentation of the code sections that allow trained personnel assigned by the building owner to fulfill the visual requirements of inspection. Also discussed are the limited cases in which the code allows licensed building engineering staff to test systems. In addition, definitions, reasons for testing, and a few brief videos will also be included in the class.

Member of Contributing Employer	\$50
Member of Non-Contributing Employer	\$250
Affiliate Rate	\$300

FLUKE HVAC METER USAGE

		S	M	T	W	T	F	S	Start Date	Times
SAC	S19SA502A					◆			03/21/2019	10:00 am to 12:00 pm
SF	S19SF502A				◆				02/13/2019	10:00 am to 12:00 pm

**MORNING
SEMINARS!!**

1 Session, 2 Hours Total.

This class is instructed from a Fluke industry professional on HVAC System troubleshooting using test tools including meters, clamp meters, and temperature meters. This class includes a Fluke 116/323 Meter kit which is an HVAC Multimeter and Clamp combo kit.

Member of Contributing Employer	\$325
Member of Non-Contributing Employer	\$525
Affiliate Rate	\$575



Spring 2019 Seminars



FORKLIFT CERTIFICATION

		S	M	T	W	T	F	S	Start Date	Times
SF	S19SF677A							◆	05/04/2019	8:00 am to 4:30 pm

1 Session, 8 Hours Total.

Key Points to be Covered:

1. Overview of Forklift Safety.
2. Vehicle Inspection prior to operation.
3. Set up and equipment prior to lifting and movement.
4. Traveling with and without a load.
5. Pallets and stacking.
6. Loading and unloading.
7. Travel in uncommon circumstances.
8. Reporting maintenance problems.
9. Backing.
10. Seat Belt Usage.
11. Successful completion of written test.
12. Successful demonstration of proficiency with the vehicle under simulated driving conditions.

Member of Contributing Employer	\$50
Member of Non-Contributing Employer	\$400
Affiliate Rate	\$500

DEMONSTRATION OF PROFICIENCY IN OPERATION OF VEHICLE: *Hands on training.*

1. Walk around inspection/review of Mfg. I.D.plate.
2. Reporting of maintenance deficiencies to supervisory personnel.
3. Seat Belt usage.
4. Starting the vehicle, checking horns, lights, lift capacity etc.
5. Backing of loaded/unloaded vehicle.
6. Lifting of palletized and non palletized items.
7. Stacking of pallets.
8. Movement of vehicles in tight areas.
9. Adjustment of forks.
10. Satisfying the instructor that the trainee has basic familiarity and confidence in safe operation of the vehicle.

HANDS-ON REFRIGERATION LABS

		S	M	T	W	T	F	S	Start Date	Times
SF	S19SF712A							◆	05/11/2019	8:00 am to 3:30 pm

3 Weeks, 7 Hours Per Session, 21 Hours Total.

Prerequisite: A basic understanding of air conditioning systems.

Class size is limited to no more than 12 students for quality instruction, so register early!

Member of Contributing Employer	\$50
Member of Non-Contributing Employer	\$400
Affiliate Rate	\$500

This seminar was designed to help students enhance their knowledge of air conditioning and refrigeration systems. The students will learn the operations, systems evacuation, charging, cycling, and specific controls and parameters of HVAC units through hands-on lab projects. This seminar will also cover basic troubleshooting, basic air flow measurements and basic electrical troubleshooting techniques.

Attendees must furnish their own safety goggles.



Spring 2019 Seminars

IUOE INDOOR AIR QUALITY CERTIFICATION

		S	M	T	W	T	F	S	Start Date	Times
SAC	S19SA027A					◆			05/16/2019	8:00 am to 4:30 pm
SF	S19SF027A					◆			02/28/2019	8:00 am to 4:30 pm

1 Session, 8 Hours Total.

Members who complete this course will receive certification in Indoor Air Quality from the IUOE. Course topics include preventative maintenance systems, record keeping, HVAC (Heating, Ventilation, Air Conditioning) systems, permissible limits, investigation procedures and the process for dealing with indoor air quality issues.

Member of Contributing Employer	\$50
Member of Non-Contributing Employer	\$400
Affiliate Rate	\$500

MOTOR BASICS W/METER

		S	M	T	W	T	F	S	Start Date	Times
SAC	S19SA906A				◆				04/17/2019	8:00 am to 3:30 pm

1 Session, 7 Hours Total.

Students will receive a SUPCO M500 megger when attending this seminar.

Students will be instructed in some of the basic motor types, as well as the categories of the insulation in the motors. Discussion on why the newer motors need better insulation and the proper techniques to "Megging" a motor. A Megger can also detect wiring problems in conduit. This is an important tool in diagnosing grounded compressor motors, deteriorating insulation in electric motors and insulated wires.

Member of Contributing Employer	\$180
Member of Non-Contributing Employer	\$430
Affiliate Rate	\$530



RECOVERING AND CHARGING HANDS ON LABS

		S	M	T	W	T	F	S	Start Date	Times
HY	S19HY722A							◆	03/02/2019	8:00 am to 4:00 pm
SF	S19SF722A							◆	01/26/2019	8:00 am to 4:00 pm
SJ	S19SJ722A							◆	04/06/2019	8:00 am to 4:00 pm

1 Session, 8 Hours Total.

The instructor will cover the correct ways to recover refrigerant from a system and all the correct charging methods used, all hands on. The parameters for recovering, how to check the charge and all the equipment needed as well.

Member of Contributing Employer	\$50
Member of Non-Contributing Employer	\$300
Affiliate Rate	\$400

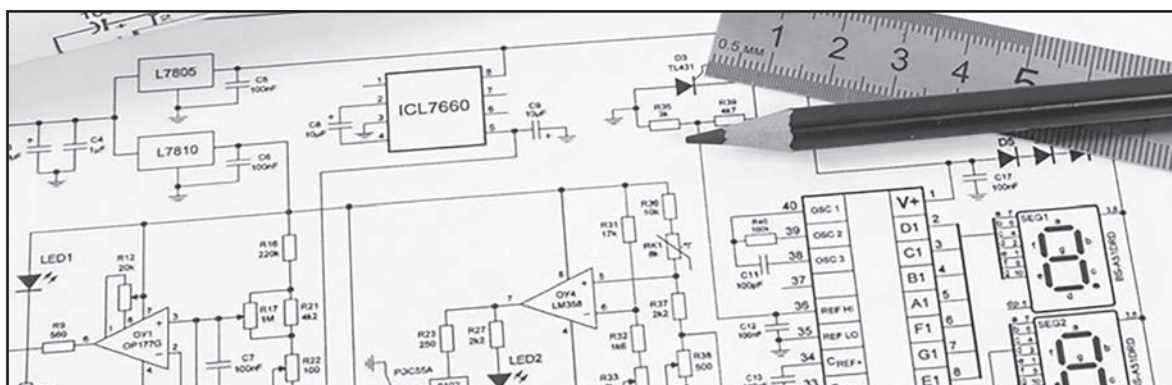
SCHEMATIC READING (BASIC)

		S	M	T	W	T	F	S	Start Date	Times
SF	S18SF508A							◆	02/16/2019	8:00 am to 4:30 pm

1 Session, 8 Hours Total.

This one-day program explores the different types of schematics that technicians see in the work environment. Students will learn how to read a ladder diagram, become familiarized with various symbols, and learn how to use a meter to check components prior to being wired into the system. This program will also cover different motor control schematics, and the Hopscotch and Tiedown methods of troubleshooting.

Member of Contributing Employer	\$50
Member of Non-Contributing Employer	\$300
Affiliate Rate	\$400



VARIABLE AIR VOLUME

		S	M	T	W	T	F	S	Start Date	Times
SF	S19SF834A							◆	04/06/2019	8:00 am to 4:30 pm

3 Sessions, 24 Hours Total.

Class size is limited to no more than 10 students for quality instruction, so register early!

This seminar will provide the fundamentals of understanding Variable Air Volume Systems, the concept of air movement, some indoor air quality checks and balances, also Local 39 Training Center now has Johnson Controls hooked up to the VAV trainers so the students can learn how to log onto a Building Management System and check the air flow that a VAV is moving, as well as how to change the air-flow rates.

Member of Contributing Employer	\$50
Member of Non-Contributing Employer	\$300
Affiliate Rate	\$400



ON-SITE Training

The cornerstone of Local 39's training has always been our ability to save and reduce costs while operating the buildings we represent in the most efficient way possible. We can provide skilled training for your job site's specific needs and will facilitate a training platform that best suits your job site, our membership, and the bottom line of management.

Examples are:

3 HOUR SEMINARS INCLUDE

- Fire Pump Test Prep. Training
- Fire Sprinkler Inspection for Engineers
- Fluke HVAC Meter Usage
- High Rise Fire Safety Director Renewal

6-8 HOUR SEMINARS INCLUDE

- Air Flow for Buildings
- Variable Air Volume
- Confined Space
- Hazardous Materials 8 Hour Refresher
- Fire Extinguisher Training
- Planning a Fire Safety Program
- Variable Frequency Drives [VFD's]
- EPA Test Prep and Test
- Nate Core Test Prep
- Basic Master Key Planning
- Cooling Tower and Water Treatment And More...

Call the Local 39 Training Center Headquarters at (415) 285-3939 to determine the availability for classes.

To assist us in fulfilling your needs, please include the following information in your email, and to satisfy your training request, we encourage you to plan your training at least 60-90 days in advance.

- 1) Course/Class of interest
- 2) Training Objective
- 3) Time/day best for scheduling
- 4) Deadline to complete the training
- 5) Number of members and their union status (MCE, MNCE, Affiliate, and/or Unit#)
- 6) Location of training site
- 7) Contact person and telephone number

A one-time administrative fee, per course, will be charged for all jobsite training requests in addition to the advertised member registration rates listed in this catalog, and any other outside costs related to the training requests.

Image courtesy of American Technical Publishers, Inc.

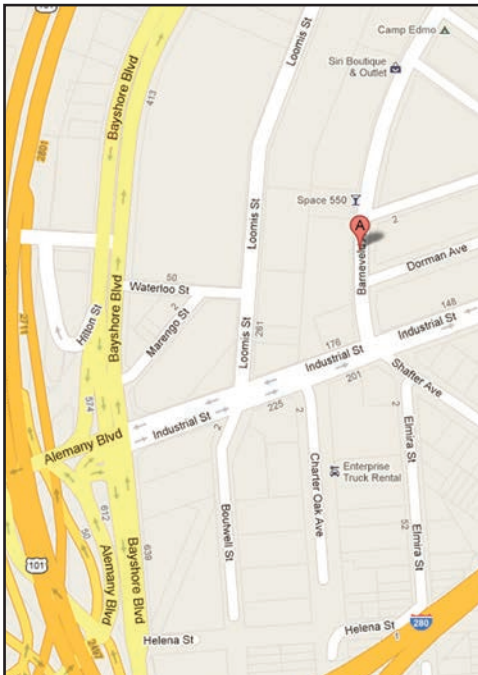
Training Locations



SAN FRANCISCO

Local 39 San Francisco Training Center (HQ)
560 Barneveld Avenue
San Francisco, CA 94124
Office: (415) 285-3939
Fax: (415) 285-6916

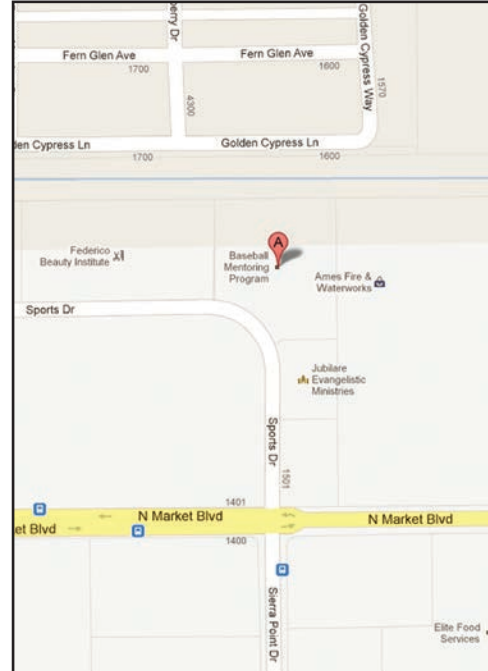
Office Hours:
Monday - Friday 8:00am - 4:30pm



SACRAMENTO

Local 39 Sacramento Training Center
1513 Sports Drive, Suite 150
Sacramento, CA 95834
Office: (916) 928-0200
Fax: (916) 928-0210

Office Hours:
Monday - Friday 8:00am - 4:30pm



• For further assistance go to maps.google.com •

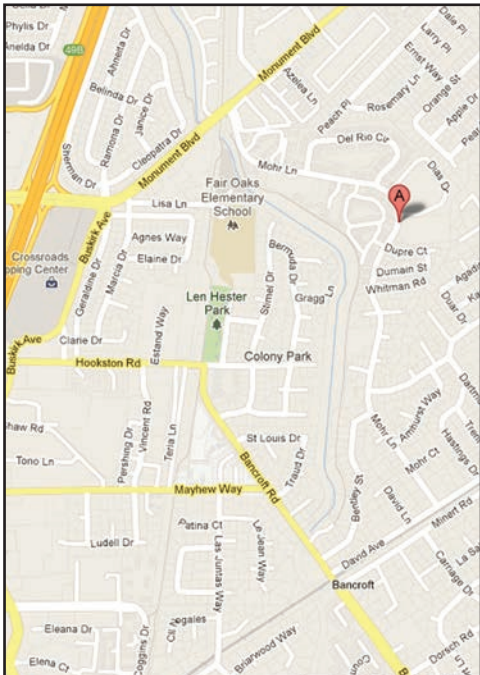


Training Locations, continued



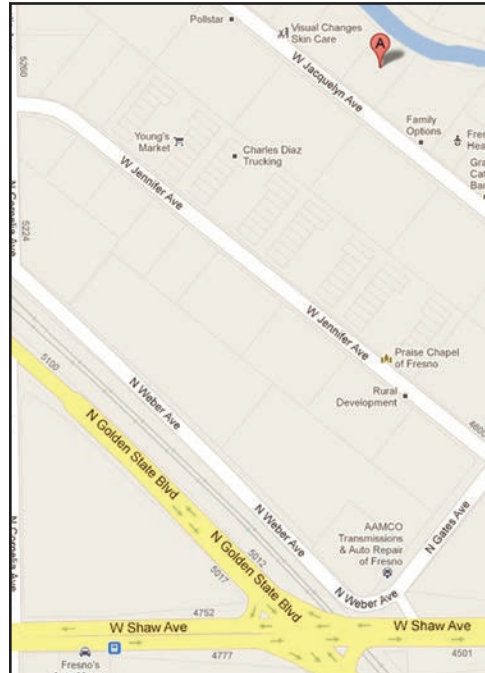
CONCORD

Willow Creek Center
1026 Mohr Lane
Concord, CA 94518



FRESNO

Local 39 Union Hall and Training Center
4644 West Jacquelyn Avenue
Fresno, CA 93722



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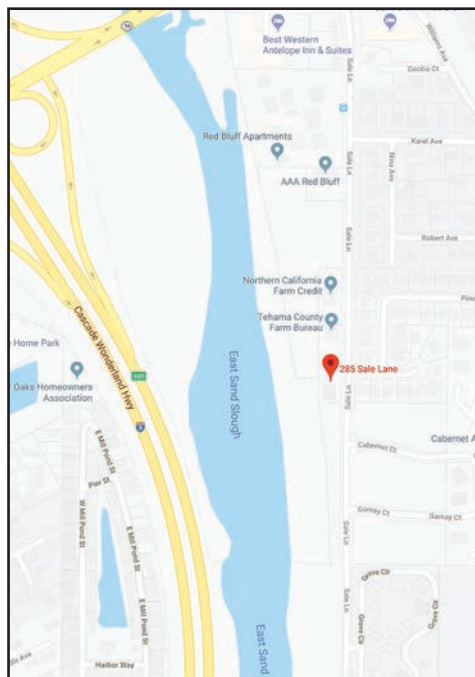
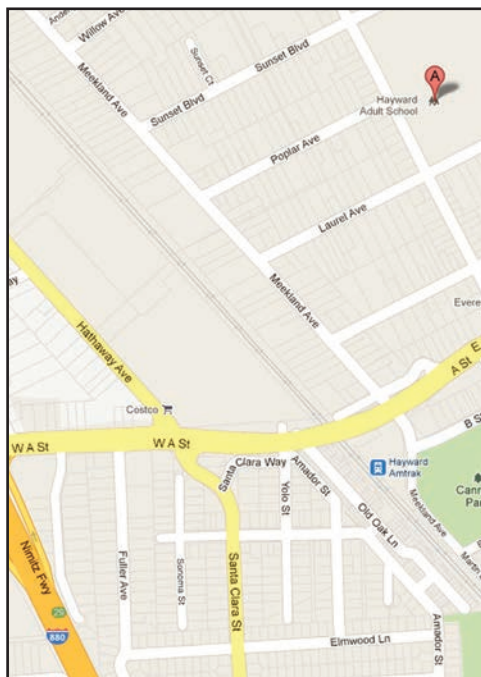
HAYWARD

Hayward Center for Education and Careers
22100 Princeton Street, Room S-5
Hayward, CA 94541



RED BLUFF

Local 39 Union Hall
285 Sale Lane
Red Bluff, CA 96080



• For further assistance go to maps.google.com •



Training Locations, continued



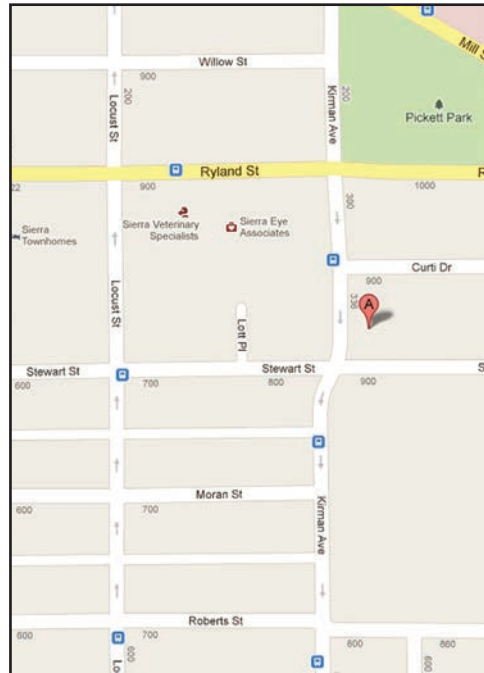
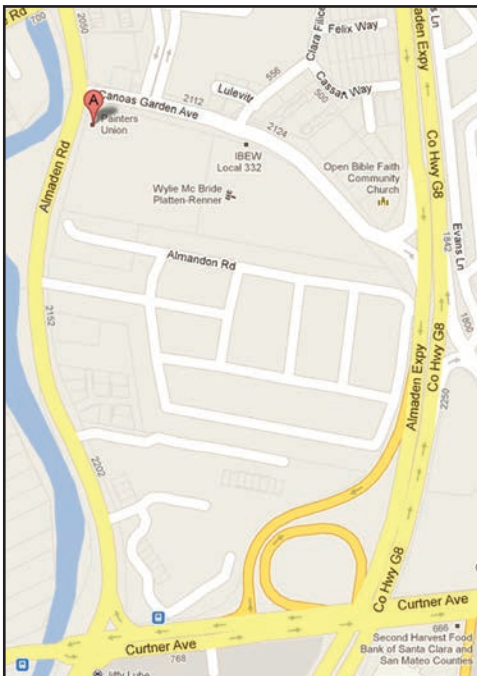
SAN JOSE

South Bay Union Hall and Training Center
2102 Almaden Road, Suite 107
San Jose, CA 95125



RENO

Local 39 Union Hall
390 Kirman Avenue
Reno, NV 89502



- For further assistance go to maps.google.com •



Local 39 Training Department
560 Barneveld Avenue
San Francisco, CA 94124

Visit www.local39training.org

For the latest training information, visit us online.
View the course schedule, get directions and
download a registration form or register
online at our site.

Local 39 Spring 2019

Bart Florence Business Manager/Recording Secretary

Tim Eggen Director of Training

