

Journeyman Class Schedule



San Diego Electrical Training Trust
4675 Viewridge Avenue
San Diego, CA 92123-1644

Spring 2019 semester
Vol. 2019-1 tri-annual

The classes listed in this schedule are designed for I.B.E.W. Local 569 members who wish to further their education. If you are interested in attending Journeyman classes at the Training Center, please read through this schedule and follow the simple registration instructions.

- To register for classes:
- (1) **Online** – from the homepage, click on the ATS Student Login button. You need to have an account to login.
 - (2) By **telephone**: **San Diego classes:** (858) 569-6633, select option 3 then 2.
Imperial County classes: (760) 355-3000.
 - (3) New to online registration? Email us at info@sdeett.org

To download the class schedule, visit www.sdeett.org/continuing_education. **Bookstore hours:** 2:30-5:00pm during the first night of class. All other times, bookstore hours are from 3:30-4:30pm. No weekends!

AC THEORY

This course is designed to teach the fundamentals of AC theory. It covers basic concepts of inductance, capacitance, and impedance, as well as transformer theory and single- and three-phase electrical systems.

Day(s)	Dates	# of Sessions	Time	Room	Location	Instructor
F	01/11	F	4:30-8PM	101	San Diego	Maushardt

AUTOCAD

Day(s)	Dates	# of Sessions	Time	Room	Location	Instructor
TTH	01/29-03/07	12	5-8:30PM	203	San Diego	Beheshti

BASIC CPR, AED AND FIRST AID FOR ADULTS

Certification in CPR, AED and First Aid – card is good for two years. Participants learn to recognize several life-threatening emergencies, provide CPR, use of AED, and relieve choking. Book cost: none.

Day(s)	Dates	# of Sessions	Time	Room	Location	Instructor
F	01/04	1	4:30-8:30pm	IVETC	Imperial*	Cantu
TH	01/31	1	4:30-8:30pm	204	San Diego	Cole
TH	02/07	1	4:30-8:30pm	204	San Diego	Cole
TH	02/21	1	4:30-8:30pm	204	San Diego	Cole
TH	02/28	1	4:30-8:30pm	204	San Diego	Cole

* class will be held at the Imperial County Electrical Training Center, 2420 Imperial Business Park Drive, Imperial, CA 92251

BASIC FOREMANSHIP

Entry-level foremen or those who wish to move into a foreman role will greatly benefit from Basic Foremanship. This course covers essential topics for early-career foreman, such as the foreman's role, documentation, mobilizing the job for success, maintaining a safe job and project closeout. This blended learning course will be a combination of online modules that are taken before in-seat discussion sessions. Participants are required to complete these online modules and actively participate in the in-seat learning group discussions. Blending Learning course material purchase is required for certification from ETA.

Day(s)	Dates	# of Sessions	Time	Room	Location	Instructor
TH	03/07-03/28	4	5-8:30pm	204	San Diego	Garcia

CALCTP (California Advanced Lighting Control Training Program) ACCEPTANCE TECHNICIAN

PRE-REQUISITE: Successfully completion of the CALCTP Technical or Systems course. Student must download and submit Application for CALCTP-AT Technician (<https://www.calctp.org/acceptance-technicians-become>) and submit to the organization listed on the application (ICF International) prior to enrollment. Once the application is approved, it must be presented to the Training Center prior to enrollment in the CALCTP-AT course. This California Advanced Lighting Controls Training Program-Acceptance Technician (CALCTP-AT) certifies acceptance technician contractors and technicians. The course consists of the online prerequisites, lecture and a final exam.

Day(s)	Dates	# of Sessions	Time	Room	Location	Instructor
MW	03/18-04/17	10	5-8:30pm	203	San Diego	Hemingway

CALCTP (California Advanced Lighting Control Training Program) TECHNICAL

PRE-REQUISITE: The prerequisite studies are on the Lighting Controls Association website - modules EE101, EE102, EE103, and EE201. These courses can be found at http://aboutlightingcontrols.org/Education_Express/welcome.php. For enrollment in CALCTP, applicants must present the certificates of completion for online study and a copy of their state certification card to the Training Center prior to enrollment in the CALCTP course. This course is divided into modules consisting of both lecture and lab activities. The module content is organized to answer the following questions about lighting controls: what they are, what they do, where they are used, and how they are installed. Each lecture contains one or more interactive components, including group discussions, device demonstrations and/or calculation exercises. The corresponding lab period, following the lecture, allows the attendee to directly apply what has been learned by installing the devices on specially-designed lab boards, under the supervision of the CALCTP-certified instructor(s). The course consists of the online prerequisites, lecture and a final exam. Successful completion of this course is a pre-requisite to enroll in the CALCTP Acceptance Technician certification course.

Day(s)	Dates	# of Sessions	Time	Room	Location	Instructor
MW	01/14-03/11	15	8am-3:30pm	203	San Diego	Johnson
SAT	02/23-04/13	8	8am-3:30pm	101	San Diego	Hemingway

**No class on 01/21 & 02/15.*

CODE CALCULATIONS: BOX FILL

This course covers Article 314 of the NEC (National Electric Code) which covers the installation and use of all boxes and conduit bodies, used as outlet, device, junction, or pull boxes. Special emphasis will be put on box fill and box volume calculations. All participants will become familiar with Table 314.16(A) for metal boxes and Table 314.16(B) Volume Allowance Required per Conductor. Students will be taught how to calculate the available space or volume for a given box when there are devices and/or equipment installed or planned to be installed in that box. NOTE: Please bring a code book and calculator to class.

Day(s)	Dates	# of Sessions	Time	Room	Location	Instructor
F	02/22	1	4:30-8pm	101	San Diego	Maushardt

CODE CALCULATIONS: CONDUCTOR AMPACITY

This course covers Section 310.15 of the NEC (National Electric Code) which covers Ampacities for Conductors Rated 0-2000 volts. All participants will become familiar with Table 310.13 for Conductor Application and Insulation, 310.15(B)(2)(a) Adjustment Factors for More Than 3 Current Carrying Conductors in a Raceway, Table 310.15(B)(6) Conductor Types and Sizes for 120/240, 3-wire, Single Phase Dwelling Services and Feeders. NOTE: Please bring a code book and calculator to class.

Day(s)	Dates	# of Sessions	Time	Room	Location	Instructor
F	03/08	1	4:30-8pm	101	San Diego	Maushardt

CODE CALCULATIONS: RACEWAY FILL

The NEC Code Calculations: Raceway Fill course covers basic procedures on how to select the proper size raceway based on insulation type, size and number of conductors installed in a raceway.

Day(s)	Dates	# of Sessions	Time	Room	Location	Instructor
F	03/22	1	4:30-8pm	101	San Diego	Collier

CODE CALCULATIONS: VOLTAGE DROP

This course introduces the student to equations used to calculate resistance and voltage drop based on Table 8, Chapter 9 of the NEC (National Electrical Code). All participants will become familiar with Table 8 of Chapter 9, Conductor Properties and Table 310.16 Allowable Ampacities of Insulated Conductors Rated 0 through 2000 Volts. Students will be taught how to calculate the resistance of a given wire size using the resistance equations based on the code book values of Table 8, Chapter 9 and how to use that resistance value to calculate the voltage drop for an electrical circuit. NOTE: Please bring a code book and calculator to class.

Day(s)	Dates	# of Sessions	Time	Room	Location	Instructor
F	02/08	1	4:30-8pm	101	San Diego	Maushardt

CONFINED SPACE ENTRY HAZARD AWARENESS

This course teaches workers about the most common hazards found in confined spaces, and about the OSHA standards (29 CFR Part 1926 for construction & 29 CFR Part 1910 for the general industry) that addresses these hazards. The course also teaches the worker how to use the NIOSH (National Institute for Occupational Safety and Health) Pocket Guide to Chemical Hazards which contains key information and data for 677 chemicals or substances commonly found in the work environment. Participants have learned about safe entry procedures, monitoring principles; entry permits procedures, proper ventilation methods, personal protective equipment, and the roles of the entrant, attendant, and entry supervisor.

Day(s)	Dates	# of Sessions	Time	Room	Location	Instructor
F	04/26	1	4:30-8pm	101	San Diego	Maushardt

DC THEORY

This course covers the basics of circuit design, measurement and calculation.

Day(s)	Dates	# of Sessions	Time	Room	Location	Instructor
F	01/25	F	4:30-8PM	101	San Diego	Maushardt

ELECTRIC VEHICLE INFRASTRUCTURE TRAINING PROGRAM (EVITP)

NOTE: EVITP certifications will only be issued by EVITP to CA state-certified general electricians with a passing score on the EVITP final exam and a minimum of 18 hours of attendance. The Electric Vehicle Infrastructure Training Program (EVITP) has been established to provide the Electric Vehicle Transportation sector of the electrical industry, and all stakeholders, a structured platform to facilitate training and certification for the installation of Electric Vehicle Supply Equipment (EVSE) across Residential and Commercial/Public markets. The program addresses the technical requirements, safety imperatives and performance integrity of industry partners. Students must pass the hands-on and written to successfully complete the course.

Day(s)	Dates	# of Sessions	Time	Room	Location	Instructor
M	01/28-03/18	7	5-8:30pm	208	San Diego	Helms

***No class on 02/15.**

ELECTRICAL CERTIFICATION STATE EXAM PREP

This course is designed to review and reinforce electrical concepts and knowledge of the National Electric Code to prepare the student for the California Electrician Certification examination. This class will cover Codeology based on the 2014 NEC and will include extensive practice using electrical calculations and code look-up. Completion of this class will give the student knowledge to excel in the workplace and on the California Certification examination.

Day(s)	Dates	# of Sessions	Time	Room	Location	Instructor
Sat	01/12-02/09	5	8-4pm	IVETC	Imperial*	Munoz
M	01/28-04/22	12	5-8:30pm	213	San Diego	Duggins

***No class on 02/15. Class will be held at the Imperial County Electrical Training Center, 2420 Imperial Business Park Drive, Imperial, CA 92251**

ELECTRICAL REVIEW

This class uses Mike Holt's Electrical Exam Preparation book for a comprehensive review of electrical fundamentals and the National Electric Code. Each of the sessions is stand-alone – allowing students to join the class at any point throughout the course. This course covers basic electrical theory with an emphasis on its application under guidelines of the NEC.

Day(s)	Dates	# of Sessions	Time	Room	Location	Instructor
MW	03/20-04/22*	10	5-8:30pm	208	San Diego	Volper

***Class starts on Wednesday, 03/20.**

FIRE/LIFE SAFETY AND VOICE-DATA-VIDEO PREP FOR STATE CERTIFICATION

This course is designed to teach the student code navigation skills and test taking strategies to help prepare students for taking the California Fire/Life Safety (FLS) and Voice-Data-Video (VDV) State Certification Exams.

Day(s)	Dates	# of Sessions	Time	Room	Location	Instructor
TH	01/24-04/11	12	5-8:30pm	214	San Diego	Suttie

INSTRUMENTATION I: INTROUCTION TO INSTRUMENTATION

This class provides an introduction to process instrumentation as used in industrial process control and automation. The basis of temperature, pressure, level and flow measurements are covered along with principles of operation, installation, maintenance, and troubleshooting of these systems. No pre-requisites are required.

Day(s)	Dates	# of Sessions	Time	Room	Location	Instructor
T	01/15-03/05	8	5-8:30pm	208	San Diego	Fleckenstein

INSTRUMENTATION II: INSTRUMENTATION LAB

PRE-REQUISITE: Instrumentation I, previous Journeyman instrumentation course or apprentice instrumentation course. This course is a continuation of the basic principles introduced in Instrumentation I but with a strong emphasis on hands-on instrument calibration. Calibrations will be performed using the same instruments and test equipment required in the EPRI Park B instrumentation exam.

Day(s)	Dates	# of Sessions	Time	Room	Location	Instructor
T	03/12-04/16	6	5-8:30pm	208	San Diego	Fleckenstein

METER USE AND SAFETY

This class was designed to help reduce the level of risk in an electrician’s daily work environment. It covers safety standards that must be maintained when performing electrical measurements. The class also clarifies meter categories and equipment inspection requirements needed to comply with NFPA 70E.

Day(s)	Dates	# of Sessions	Time	Room	Location	Instructor
F	04/12	1	4:30-8pm	101	San Diego	Maushardt

NFPA-70E, ARC FLASH HAZARD AWARENESS

This is a comprehensive training session that covers OSHA Standard CFR 1910.331 - 1910-335. This NFPA 70E Electrical Arc Flash Hazard Awareness course will provide the student with the necessary knowledge to make sound decisions and institute safe work practices. Students will learn safe work practices and procedures and as a result, be able to recognize dangerous situations and avoid certain hazards before an incident occurs. They will also learn the safe approach distances to exposed electrical conductors. At the end of this training session, they will be able to determine the proper Personal Protective Equipment (PPE) for most situations or working condition encountered. Every student will leave this class with a much better understanding of the hazards they encounter every day and a newfound respect for electricity.

Day(s)	Dates	# of Sessions	Time	Room	Location	Instructor
TH	01/17-01/24	2	5-8:30pm	204	San Diego	Helms
Sat	01/19	1	8-4:30pm	IVETC	Imperial*	Helms
TH	04/04-04/11	2	5-8:30pm	204	San Diego	Helms

* class will be held at the Imperial County Electrical Training Center, 2420 Imperial Business Park Drive, Imperial, CA 92251

OSHA 30/EM-385 CONSTRUCTION HAZARD AWARENESS

The curriculum structure mandated by Fed OSHA is closely followed in the aspects of construction safety. This Cal/OSHA course reviews standards, procedures and policies for construction workers in California. The course also covers GHS Classification and Labeling of Chemicals, general safety awareness, required procedures, content and structure of the USACE Engineering Manual "EM-385-1-1-2008" Safety requirements and the 29 CFR Park 1926 Federal OSHA’s Safety and Health Requirements for Construction. To order your free copy: Email hector.n.hunt@usace.army.mil and request a FREE copy of the EM-385-1-1 Army Corp of Engineers Safety Manual. Provide your name and mailing address. **Allow 5-7 business days for shipping.** Student is required to order the free textbook and bring to class.

Day(s)	Dates	# of Sessions	Time	Room	Location	Instructor
TTH	02/26-04/26	15	5-8:30pm	110/201	San Diego	Mills

SAFE ELECTRICAL WORK PRACTICES FOR TRANSFORMER TESTING & MEGGERING

LOTO, how insulation resistance is measured, factors affecting insulation resistance reading, test voltage vs. equipment rating, basic meter use and meter safety (megohm meter & digital multimeter), how to connect test instruments for safe testing of electrical equipment, test using multi-voltage megger insulation testers.

Day(s)	Dates	# of Sessions	Time	Room	Location	Instructor
Sat	03/16	1	8-4:30pm	IVETC	Imperial	Lopez
F	05/03	1	4:30-8pm	101	San Diego	Maushardt

* class will be held at the Imperial County Electrical Training Center, 2420 Imperial Business Park Drive, Imperial, CA 92251

WELDING I: BASICS

This course is designed to develop the students welding skills and technique. All safety aspects of welding are covered as well as basic metallurgy and understanding the operation and limitations of today's welders. By practicing on the machines, each student learns all welding positions including horizontal, vertical, overhead and flat.

Day(s)	Dates	# of Sessions	Time	Room	Location	Instructor
F	01/25-02/22	4	4:30-7:30pm	Shop 1	San Diego	Bennett

*No class on 02/15.

WELDING II: FABRICATION

F	03/08-04/12	6	4:30-7:30pm	Shop 1	San Diego	Bennett
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YOUR 401K

Day(s)	Dates	# of Sessions	Time	Room	Location	Instructor
F	03/29	1	4:30pm-7pm	201	San Diego	Focus Investments

YOUR HEALTH & WELFARE & PENSION PLANS

The San Diego Electrical Health & Welfare Trust and Pension Trust will provide a presentation on Plan Benefits relating to your current healthcare coverage and pension plan. Presentation will include highlights outlining some of the benefits, rules and regulations, Plan provisions, cost-containment programs and relevant information specific to your Plan.

Day(s)	Dates	# of Sessions	Time	Room	Location	Instructor
TH	02/07	1	4:30-7pm	201	San Diego	Morfoot

NOTICE

Name of Plan: San Diego Electrical Training Trust
Plan EIN: 95-3072483
Plan Administrator: Kevin Johnson

Any employee of any employer contributing to the Apprenticeship and Training Plan may be eligible to enroll in any course or program of study sponsored or established by the Plan.

Any interested individuals can obtain:

- A description of any existing or anticipated future course of study sponsored or established by the Plan;
- Information concerning prerequisites for enrolling in such course;
- A description of the procedure by which to enroll in such course;
- A copy of this notice,

By contacting: San Diego Electrical Training Trust, 4675 Viewridge Avenue, San Diego, CA 92123

CLASS SCHEDULE BY LOCATION BY DATE

Start Date	End Date	Class ID	Description
1/4/2019	1/4/2019	2019J161801	Basic CPR, AED And First Aid For Adults
1/11/2019	1/11/2019	2019J16701	AC Theory
1/14/2019	3/11/2019	2019J18181	CALCTP Technical
1/15/2019	3/5/2019	2019J17101	Instrumentation I: Introduction to Instrumentation
1/17/2019	1/24/2019	2019J17721	NFPA 70E Arc Flash Hazard Awareness
1/24/2019	4/11/2019	2019J17881	Fire/Life Safety & Voice-Data-Video Prep For State Certification
1/25/2019	2/22/2019	2019J16201	Welding I: Basics
1/25/2019	1/25/2019	2019J16651	DC Theory
1/28/2019	3/18/2019	2019J16021	Electric Vehicle Infrastructure Training Program (EVITP)
1/12/2019	2/9/2019	2019J17632	Electrical Certification State Exam Prep
1/28/2019	4/22/2019	2019J17631	Electrical Certification State Exam Prep
1/29/2019	3/7/2019	2019J16931	AutoCAD
1/31/2019	1/31/2019	2019J161802	Basic CPR, AED And First Aid For Adults
2/7/2019	2/7/2019	2019J161803	Basic CPR, AED And First Aid For Adults
2/7/2019	2/7/2019	2019J17971	Your Pension & Health/Welfare
2/8/2019	2/8/2019	2019J18361	Code Calculations: Voltage Drop
2/21/2019	2/21/2019	2019J161804	Basic CPR, AED And First Aid For Adults
2/22/2019	2/22/2019	2019J18341	Code Calculations: Box Fill
2/23/2019	4/13/2019	2019J18182	CALCTP Technical
2/26/2019	4/16/2019	2019J17441	OSHA 30/EM-385
2/28/2019	2/28/2019	2019J161807	Basic CPR, AED And First Aid For Adults
3/7/2019	3/28/2019	2019J18381	Basic Foremanship
3/8/2019	4/12/2019	2019J16211	Welding II: Fabrication
3/8/2019	3/8/2019	2019J18351	Code Calculations: Conductor Ampacity
3/12/2019	4/16/2019	2019J17111	Instrumentation II: Instrumentation Lab
3/16/2019	3/16/2019	2019J18202	Safe Electrical Work Practices For Transformer Testing & Meggering
3/18/2019	4/17/2019	2019J18311	CALCTP Acceptance Technician (AT)
3/20/2019	4/22/2019	2019J17621	Electrical Review
3/22/2019	3/22/2019	2019J18371	Code Calculations: Raceway Fill
3/29/2019	3/29/2019	2019J17951	Your 401K
4/4/2019	4/11/2019	2019J17722	NFPA 70E Arc Flash Hazard Awareness
4/12/2019	4/12/2019	2019J18051	Meter Use and Safety
4/26/2019	4/26/2019	2019J18191	Confined Space Entry Hazard Awareness
5/3/2019	5/3/2019	2019J18201	Safe Electrical Work Practices For Transformer Testing & Meggering