

Journeyman Class Schedule



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

Fall 2017 semester
Vol. 2017-3 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) **On-line** at www.sdeett.org/all-classes/
(2) By **telephone: San Diego classes:** (858) 569-6633, select option 3 then 2.
Imperial County classes: (760) 355-3000.

Bookstore hours: 2:30-5:00pm during the first night of class. All other times, bookstore hours are from 2:30-4:30pm. No weekends!

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.

Day(s)	Dates	# of Sessions	Time	Room	Location	Instructor
F	9/15	1	4:30-8:30pm	214	San Diego	Cole
F	9/22	1	4:30-8:30pm	214	San Diego	Cole
T	9/26	1	4:30-8:30pm	204	San Diego	Cole
F	9/29	1	4:30-8:30pm	214	San Diego	Cole
T	10/3	1	4:30-8:30pm	204	San Diego	Cole
T	10/10	1	4:30-8:30pm	204	San Diego	Cole
T	10/17	1	4:30-8:30pm	204	San Diego	Cole
T	10/24	1	4:30-8:30pm	204	San Diego	Cole
W	11/1	1	4:30-8:30pm	201	San Diego	Cole
T	11/7	1	4:30-8:30pm	204	San Diego	Cole
W	11/8	1	4:30-8:30pm	201	San Diego	Cole
T	11/14	1	4:30-8:30pm	204	San Diego	Cole
W	11/15	1	4:30-8:30pm	201	San Diego	Cole
T	11/21	1	4:30-8:30pm	204	San Diego	Cole
W	11/29	1	4:30-8:30pm	201	San Diego	Cole
T	11/28	1	4:30-8:30pm	204	San Diego	Cole

BUILDING SYSTEMS: SECURITY, IP CAMERAS AND ACCESS CONTROL

This is an introduction to low voltage control systems. Students will learn the basics of low voltage control systems, associated devices and the methods of the industry. All the basic elements of low voltage control systems are combined into a single source to give a concrete understanding of the operation and integration of individual systems.

Day(s)	Dates	# of Sessions	Time	Room	Location	Instructor
T	10/3-12/5	10	5-8:30pm	110	San Diego	Doolin

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	11/3	1	4:30-8pm	101	San Diego	Collier

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	11/17	1	4:30-8pm	101	San Diego	Collier

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	12/8	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	10/27	1	4:30-8pm	101	San Diego	Collier

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	10/13	1	4:30-8pm	101	San Diego	Collier

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	10/23-11/22	10	5-8pm	206	San Diego	Volper

ELECTRIC VEHICLE INFRASTRUCTURE TRAINING PROGRAM (EVITP)

NOTE: EVITP certifications will only be issued by EVITP to CA state-certified general electricians. 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
TTH	9/26-10/10	5	5-8:30	201	San Diego	Collier

FIRE/LIFE SAFETY PREP FOR STATE CERTIFICATION

This course is designed to help you pass the California Fire/Life Safety state certification exam.

Day(s)	Dates	# of Sessions	Time	Room	Location	Instructor
W	9/27-12/13	12	5-8:30pm	111	San Diego	Suttie

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	9/22	1	4:30-8pm	101	San Diego	Collier

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	10/31-12/14	13	5-8:30pm	201	San Diego	Silva

VOICE-DATA-VIDEO PREP FOR STATE CERTIFICATION

This course is designed to help you pass the California Voice-Data-Video (VDV) state certification exam.

Day(s)	Dates	# of Sessions	Time	Room	Location	Instructor
TH	9/21-12/14	12	5-8:30pm	108	San Diego	Suttie

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	9/22-10/20	4	4:30-7:30pm	Shop 1	San Diego	Bennett

WELDING II: FABRICATION

F	10/27-12/8*	6	4:30-7:30pm	Shop 1	San Diego	Bennett
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***NO CLASS ON 11/24**

San Diego Electrical Training Trust
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