

# Journeyman Class Schedule



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

Fall 2018 semester  
Vol. 2018-3 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) **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](mailto:info@sdeett.org)

To download the class schedule, visit [www.sdeett.org/continuing\\_education](http://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/DC THEORY

Day(s)	Dates	# of Sessions	Time	Room	Location	Instructor
SAT	12/15	1	8am-3:30pm	IVETC*	Imperial	Lopez

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

## AUTOCAD

Day(s)	Dates	# of Sessions	Time	Room	Location	Instructor
TTH	09/11-10/18	12	5-8:30PM	205	San Diego	Beheshti
MW	10/15-11/21	12	5-8:30PM	IVETC*	Imperial	Miranda

No class on 11/12. \* class will be held at the Imperial County Electrical Training Center, 2420 Imperial Business Park Drive, Imperial, CA 92251

## BASIC CPR, AED AND FIRST AID FOR ADULTS

Certification in CPR, AED and First Aid – card is good for one year to comply with NFPA70E. 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	09/07	1	4:30-8:30pm	IVETC*	Imperial	Cantu
F	10/05	1	4:30-8:30pm	IVETC*	Imperial	Cantu
T	10/16	1	4:30-8:30pm	203	San Diego	Finneran
W	10/17	1	4:30-8:30pm	203	San Diego	Klatt
TH	10/18	1	4:30-8:30pm	203	San Diego	Cole
T	10/23	1	4:30-8:30pm	203	San Diego	Finneran
W	10/24	1	4:30-8:30pm	203	San Diego	Klatt
TH	10/25	1	4:30-8:30pm	203	San Diego	Cole
T	10/30	1	4:30-8:30pm	203	San Diego	Finneran
W	11/14	1	4:30-8:30pm	203	San Diego	Klatt
TH	11/15	1	4:30-8:30pm	203	San Diego	Cole
F	11/16	1	4:30-8:30pm	IVETC*	Imperial	Cantu
T	11/20	1	4:30-8:30pm	203	San Diego	Finneran
T	11/27	1	4:30-8:30pm	203	San Diego	Finneran
W	11/28	1	4:30-8:30pm	203	San Diego	Klatt
TH	11/29	1	4:30-8:30pm	203	San Diego	Cole

F	12/07	1	4:30-8:30pm	IVETC*	Imperial	Cantu
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### **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	10/18-11/08	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	09/17-10/17	10	5-8:30pm	208	San Diego	Stark
TTH	09/18-10/18	10	5-8:30pm	208	San Diego	Stark

### **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](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
SAT	10/13-12/15	8	8am-3:30pm	101	San Diego	TBD

\*No class on 11/10, 11/24

### **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	11/02	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
SAT	10/13	1	8am-11:30am	IVETC	Imperial	Lopez
F	11/16	1	4:30-8pm	101	San Diego	Maushardt

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### **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
SAT	10/13	1	12:30-4:30pm	IVETC	Imperial	Lopez
F	12/07	1	4:30-8pm	101	San Diego	Collier

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### **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	10/26	1	4:30-8pm	101	San Diego	Collier

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

### **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	10/01-11/19	7	5-8:30pm	208	San Diego	Monahan
SAT	09/08-09/29	4	8am-3:30pm	IVETC*	Imperial	Lopez

No class on 11/12. \* class will be held at the Imperial County Electrical Training Center, 2420 Imperial Business Park Drive, Imperial, CA 92251

### **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
M	09/10-12/03	12	5-8:30pm	108	San Diego	Duggins
SAT	09/08-10/13	6	8am-3:30pm	IVETC*	Imperial	Munoz

No class on 11/12. \*\* 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	09/05-10/08	10	5-8:30pm	IVETC*	Imperial	Miranda
MW	10/22-11/26	10	5-8:30pm	208	San Diego	Volper

No class on 11/12. \* class will be held at the Imperial County Electrical Training Center, 2420 Imperial Business Park Drive, Imperial, CA 92251

### **ENERGY STORAGE AND MICROGRID TRAINING AND CERTIFICATION (ESAMTAC)**

*Pre-requisite:* For enrollment in ESAMTAC, students must show a copy of their state certification card to the Training Center prior to enrollment in the course. ESAMTAC is an education/training program, and credential (future), that prepares electrical contractors and electricians for the safe and effective assembly, testing, commissioning, maintenance, repair, retrofitting, and decommissioning of energy storage and microgrid (ESM) systems. ESAMTAC consists of two courses and related credentials. The primary course develops knowledge and skills with an emphasis on energy storage and micro grid components.

Day(s)	Dates	# of Sessions	Time	Room	Location	Instructor
TTH	11/06-12/18	12	5-8:30PM	205	San Diego	Derouche

No class on 11/22

### **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
W	09/26-12/12	12	5-8:30pm	111	San Diego	Suttie

### **INTRODUCTION TO INSTRUMENTATION**

This class provides students with a more advanced understanding of instrumentation and control, covering temperature, pressure, flow, and level detection (process control) systems; their principles of operation, and strategies for installation, maintenance, and troubleshooting of these systems.

Day(s)	Dates	# of Sessions	Time	Room	Location	Instructor
T	09/11-11/13	10	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	09/28	1	4:30-8pm	101	San Diego	Collier

### **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	09/13-09/20	2	5-8:30pm	204	San Diego	Helms
TH	09/27-10/04	2	5-8:30pm	204	San Diego	Helms
TH	10/11-10/18	2	5-8:30pm	204	San Diego	Helms

### OSHA 10

This course covers the following topics: Introduction to OSHA, OSH Act, inspections, citations, and penalties; walking and working surfaces, means of egress and fire protection, electrical flammable and combustible liquids, personal protective equipment, machine guarding, hazard communication, introduction to industrial hygiene/blood borne pathogens and health & safety programs. Upon successful completion of this course, the official OSHA course completion wallet card will be sent to you.

Day(s)	Dates	# of Sessions	Time	Room	Location	Instructor
MW	11/26-12/05	4	5-8:30pm	IVETC	Imperial*	Miranda

*\*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 Part 1926 Federal OSHA's Safety and Health Requirements for Construction. To order your free copy: Email [hector.n.hunt@usace.army.mil](mailto: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	09/04-10/18	14	5-8:30pm	IVETC	Imperial*	Miranda
TTH	10/23-12/13	15	5-8:30pm	201	San Diego	Miller

*No class on 11/22\*class will be held at the Imperial County Electrical Training Center, 2420 Imperial Business Park Drive, Imperial, CA 92251*

### RIGGING/CRANE SAFETY

This course will cover risk management and the basic rigging plan; basic rigging principles and load control; loads on rigging and the rigging triangle; application of hardware and application of slings; crane safety.

Day(s)	Dates	# of Sessions	Time	Room	Location	Instructor
F	09/14	1	4:30-8pm	101	San Diego	Maushardt

### TRANSFORMER THEORY

Day(s)	Dates	# of Sessions	Time	Room	Location	Instructor
SAT	11/17	1	8am-3:30pm	IVETC	Imperial	Lopez

*\* 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	10/05-10/26	4	4:30-7:30pm	Shop 1	San Diego	Bennett

### WELDING II: FABRICATION

Day(s)	Dates	# of Sessions	Time	Room	Location	Instructor
F	11/02-12/14	6	4:30-7:30pm	Shop 1	San Diego	Bennett

*\*No classes on 11/23.*

**YOUR 401K**

Day(s)	Dates	# of Sessions	Time	Room	Location	Instructor
F	09/21	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
W	10/03	1	5-8pm	201	San Diego	Morfoot

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**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

### IMPERIAL VALLEY

Start Date	End Date	Class ID	Description
9/4/2018	10/18/2018	2018J37441	OSHA 30/EM-385 Construction Hazard Awareness
9/8/2018	9/29/2018	2018J36022	Electric Vehicle Infrastructure Training Program (EVITP)
9/8/2018	10/13/2018	2018J37632	Electrical Certification State Exam Prep
10/5/2018	10/5/2018	2018J361803	Basic CPR, AED And First Aid For Adults
10/13/2018	10/13/2018	2018J38351	Code Calculations: Conductor Ampacity
10/15/2018	11/21/2018	2018J36932	AutoCAD
11/16/2018	11/16/2018	2018J361804	Basic CPR, AED And First Aid For Adults
11/17/2018	11/17/2018	2018J36571	Transformer Theory
11/26/2018	12/5/2018	2018J37421	OSHA 10
12/7/2018	12/7/2018	2018J361805	Basic CPR, AED And First Aid For Adults
12/15/2018	12/15/2018	2018J36681	AC/DC Theory
1/4/2019	1/4/2019	2019J161801	Basic CPR, AED And First Aid For Adults

### SAN DIEGO

Start Date	End Date	Class ID	Description
9/10/2018	12/3/2018	2018J37631	Electrical Certification State Exam Prep
9/11/2018	10/18/2018	2018J36931	AutoCAD
9/11/2018	11/13/2018	2018J37101	Introduction to Instrumentation
9/13/2018	9/20/2018	2018J37721	NFPA 70E Arc Flash Hazard Awareness
9/14/2018	9/14/2018	2018J37781	Rigging/Crane Safety
9/17/2018	10/17/2018	2018J38311	CALCTP Acceptance Technician (AT)
9/18/2018	10/18/2018	2018J38312	CALCTP Acceptance Technician (AT)
9/21/2018	9/21/2018	2018J37951	Your 401K
9/26/2018	12/12/2018	2018J37881	Fire/Life Safety and Voice-Data-Video Prep for State Certification
9/27/2018	10/4/2018	2018J37722	NFPA 70E Arc Flash Hazard Awareness
9/28/2018	9/28/2018	2018J38051	Meter Use and Safety
10/1/2018	11/19/2018	2018J36021	Electric Vehicle Infrastructure Training Program (EVITP)
10/2/2018	12/14/2018	2018J36211	Welding II: Fabrication
10/3/2018	10/3/2018	2018J37971	Your Pension & Health/Welfare
10/5/2018	10/26/2018	2018J36201	Welding I: Basics

**SAN DIEGO**

Start Date	End Date	Class ID	Description
10/11/2018	10/18/2018	2018J37723	NFPA 70E Arc Flash Hazard Awareness
10/12/2018	10/12/2018	2018J38191	Confined Space Entry Hazard Awareness
10/13/2018	12/15/2018	2018J38181	CALCTP Technical
10/16/2018	10/16/2018	2018J361806	Basic CPR, AED And First Aid For Adults
10/17/2018	10/17/2018	2018J361807	Basic CPR, AED And First Aid For Adults
10/18/2018	10/18/2018	2018J361808	Basic CPR, AED And First Aid For Adults
10/18/2018	11/8/2018	2018J38381	Basic Foremanship
10/22/2018	11/26/2018	2018J37622	Electrical Review
10/23/2018	12/13/2018	2018J37442	OSHA 30/EM-385 Construction Hazard Awareness
10/24/2018	10/24/2018	2018J361810	Basic CPR, AED And First Aid For Adults
10/25/2018	10/25/2018	2018J361811	Basic CPR, AED And First Aid For Adults
10/26/2018	10/26/2018	2018J38361	Code Calculations: Voltage Drop
11/2/2018	11/2/2018	2018J38341	Code Calculations: Box Fill
11/6/2018	12/18/2018	2018J38431	Energy Storage and Microgrid Training and Certification (ESAMTAC)
11/14/2018	11/14/2018	2018J361813	Basic CPR, AED And First Aid For Adults
11/15/2018	11/15/2018	2018J361814	Basic CPR, AED And First Aid For Adults
11/16/2018	11/16/2018	2018J38352	Code Calculations: Conductor Ampacity
11/20/2018	11/20/2018	2018J361815	Basic CPR, AED And First Aid For Adults
11/27/2018	11/27/2018	2018J361816	Basic CPR, AED And First Aid For Adults
11/28/2018	11/28/2018	2018J361817	Basic CPR, AED And First Aid For Adults
11/29/2018	11/29/2018	2018J361818	Basic CPR, AED And First Aid For Adults
12/7/2018	12/7/2018	2018J38372	Code Calculations: Raceway Fill