

Journeyman Class Schedule ETledu.org



4675 Viewridge Avenue
San Diego, CA 92123-1644

Summer 2021 semester
Vol. 2021-2 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 Electrical Training Institute, 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: 2021** (760) 355-3000.
- 3) New to online registration? Email us at info@sdeit.org

To download the class schedule, visit www.etiedu.org/continuing_education. **Bookstore hours:** 3:30-4:30pm Monday through Friday. Summer 2021 Journeyman classes will be conducted via Zoom (online platform) unless noted.

BLUEBEAM

Launch your document reading, editing, and creating skills into the future with this overview of the Bluebeam software and all that it can do when it comes to digital documentation. Students will learn the basic functionality of the software while getting into the vast assortment of mark up and editing tools. A specific focus will be given to construction-related tools and features.

| Day(s) | Start | End | Sessions | Time | Room | Location | Instructor |
|---------|-------|------|----------|------------|------|-----------|------------|
| Tue/Thu | 6/15 | 6/24 | 4 | 5-8:30pm | 201 | San Diego | Behesti |
| Sat | 7/24 | 7/31 | 2 | 8am-3:30pm | 1 | Imperial | Lopez |

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 and valid state certification card. Pre-requisites must be submitted a week prior to the start of class. 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 Electrical Training Institute 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) | Start | End | Sessions | Time | Room | Location | Instructor |
|----------|-------|------|----------|----------|------|-----------|-----------------------|
| Mon/Wed* | 6/23 | 8/16 | 15 | 5-8:30pm | 101 | San Diego | Canada/Tucker/Landers |
| Tue/Tue | 6/22 | 8/10 | 15 | 5-8:30pm | 101 | San Diego | Canada |

. * class starts on Wednesday, 6/23. No classes on 7/5.

CALCTP (California Advanced Lighting Control Training Program) Acceptance Technician

PRE-REQUISITE: Successful 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) | Start | End | Sessions | Time | Room | Location | Instructor |
|---------|-------|------|----------|----------|------|-----------|------------|
| Tue/Thu | 5/18 | 6/17 | 10 | 5-8:30pm | 101 | San Diego | Landers |

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.

| Day(s) | Start | End | Sessions | Time | Location | Instructor |
|--------|-------|------|----------|----------|-------------------|--------------|
| Fri | 5/14 | 5/14 | 1 | 4:30-8pm | Distance Learning | Fleckenstein |

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.

| Day(s) | Start | End | Sessions | Time | Location | Instructor |
|--------|-------|------|----------|----------|-------------------|--------------|
| Fri | 5/21 | 5/21 | 1 | 4:30-8pm | Distance Learning | Fleckenstein |

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) | Start | End | Sessions | Time | Location | Instructor |
|--------|-------|------|----------|----------|-------------------|--------------|
| Fri | 6/11 | 6/11 | 1 | 4:30-8pm | Distance Learning | Fleckenstein |

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.

| Day(s) | Start | End | Sessions | Time | Location | Instructor |
|--------|-------|------|----------|----------|-------------------|--------------|
| Fri | 6/25 | 6/25 | 1 | 4:30-8pm | Distance Learning | Fleckenstein |

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) | Start | End | Sessions | Time | Location | Instructor |
|--------|-------|-----|----------|----------|-------------------|------------|
| Fri | 7/9 | 7/9 | 1 | 4:30-8pm | Distance Learning | Helms |

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) | Start | End | Sessions | Time | Room | Location | Instructor |
|--------|-------|------|----------|-------------|------|-----------|------------|
| Fri | 5/7 | 5/7 | 1 | 4:30-8:30pm | 1 | Imperial* | Gonzales |
| Thu | 5/20 | 5/20 | 1 | 4:30-8:30pm | 203 | San Diego | Williams |
| Fri | 5/21 | 5/21 | 1 | 4:30-8:30pm | 203 | San Diego | Williams |
| Wed | 5/26 | 5/26 | 1 | 4:30-8:30pm | 203 | San Diego | Bennett |
| Fri | 6/4 | 6/4 | 1 | 4:30-8:30pm | 203 | San Diego | Williams |
| Fri | 6/4 | 6/4 | 1 | 4:30-8:30pm | 1 | Imperial* | Gonzales |
| Mon | 6/7 | 6/7 | 1 | 4:30-8:30pm | 203 | San Diego | Williams |
| Thu | 6/10 | 6/10 | 1 | 4:30-8:30pm | 203 | San Diego | Williams |
| Wed | 6/23 | 6/23 | 1 | 4:30-8:30pm | 203 | San Diego | Williams |
| Fri | 6/25 | 6/25 | 1 | 4:30-8:30pm | 203 | San Diego | Williams |
| Mon | 6/28 | 6/28 | 1 | 4:30-8:30pm | 203 | San Diego | Bennett |
| Wed | 6/30 | 6/30 | 1 | 4:30-8:30pm | 203 | San Diego | Bennett |
| Fri | 7/9 | 7/9 | 1 | 4:30-8:30pm | 1 | Imperial* | Gonzales |
| Fri | 7/9 | 7/9 | 1 | 4:30-8:30pm | 203 | San Diego | Bennett |
| Tue | 7/13 | 7/13 | 1 | 4:30-8:30pm | 203 | San Diego | Bennett |
| Thu | 7/15 | 7/15 | 1 | 4:30-8:30pm | 203 | San Diego | Bennett |
| Mon | 7/19 | 7/19 | 1 | 4:30-8:30pm | 203 | San Diego | Bennett |
| Wed | 7/28 | 7/28 | 1 | 4:30-8:30pm | 203 | San Diego | Bennett |
| Mon | 8/2 | 8/2 | 1 | 4:30-8:30pm | 203 | San Diego | Bennett |
| Fri | 8/6 | 8/6 | 1 | 4:30-8:30pm | 1 | Imperial* | Gonzales |
| Fri | 8/6 | 8/6 | 1 | 4:30-8:30pm | 203 | San Diego | Bennett |
| Wed | 8/11 | 8/11 | 1 | 4:30-8:30pm | 203 | San Diego | Bennett |

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

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) | Start | End | Sessions | Time | Location | Instructor |
|---------|-------|-----|----------|----------|--------------------|------------|
| Tue/Thu | 7/13 | 8/3 | 7 | 5-8:30pm | Distance Learning* | Helms |

* EVITP certification exam will be at ETI San Diego on 8/3 in Room 213.

ELECTRICAL CERTIFICATION 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 2017 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) | Start | End | Sessions | Time | Location | Instructor |
|---------|-------|-----|----------|----------|-------------------|------------|
| Tue/Thu | 5/25 | 7/1 | 12 | 5-8:30pm | Distance Learning | Ancona |

FIBER OPTIC CABLING

An in-depth study of Fiber Optic Cabling systems with a heavy amount of hands-on lab activities to strengthen the students' understanding. Students will practice stripping back and terminating fiber optic connections using both anaerobic, uni-cam, and fusion techniques. This is an FOA Certification Course which includes an extensive final exam.

| Day(s) | Start | End | Sessions | Time | Location | Instructor |
|--------|-------|-----|----------|----------|----------|------------|
| Wed | 6/2 | 8/4 | 10 | 5-8:30pm | Room 112 | Huyler |

FIRE ALARM INSTALLATIONS

This course will cover installation of fire alarm systems, including Codes and troubleshooting.

| Day(s) | Start | End | Sessions | Time | Location | Instructor |
|--------|-------|-----|----------|----------|----------------|------------|
| Wed | 6/2 | 8/4 | 10 | 5-8:30pm | Room 111/Zoom* | Bressette |

**First 5 class sessions are lectures via Zoom.*

FIRE/LIFE SAFETY & VOICE-DATA-VIDEO CERTIFICATION PREP

This course is designed to teach the student code navigation skills and test taking strategies to help prepare them for taking the California Voice-Data-Video (VDV) & Fire/Life Safety (FLS) state certification exams.

| Day(s) | Start | End | Sessions | Time | Location | Instructor |
|--------|-------|------|----------|----------|-------------------|------------|
| Thu | 5/27 | 7/29 | 10 | 5-8:30pm | Distance Learning | Suttie |

MOTOR CONTROLS, BASIC

The Motor Controls course is designed to review with the student how to identify, formulate and solve motor control problems in a systematic manner. Lab exercises are used to illuminate, clarify and re-enforce course objectives and the principles under discussion. This course re-introduces the student to the basics of electricity; describe the control, operation and uses of each control product, its voltage, current and frequency. Topics include rotating machine theory; ladder logic; electromechanical & solid-state relays; mechanical and solid-state timers; three-phase power systems.

| Day(s) | Start | End | Sessions | Time | Room | Location | Instructor |
|--------|-------|------|----------|------------|------|----------|------------|
| Sat | 6/5 | 6/12 | 2 | 8am-3:30pm | 1 | Imperial | Lopez |

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) | Start | End | Sessions | Time | Location | Instructor |
|--------|-------|-----|----------|----------|-------------------|------------|
| Wed | 7/28 | 8/4 | 2 | 5-8:30pm | Distance Learning | Helms |

OSHA 10 CONSTRUCTION SAFETY

The **OSHA 10-hour Construction Industry Outreach** program is intended to provide entry-level construction workers general awareness on recognizing and preventing hazards on a construction site. This course is designed for construction workers as an ideal orientation to those who are new to the industry and as a reminder to those who have been working in the industry to the hazards associated with their work. The program provides complete information on OSHA compliance issues. OSHA recommends Outreach Training Programs as an orientation to occupational safety and health for workers covered by **OSHA 29 CFR 1926**. Construction workers must receive additional training, when required by OSHA standards, on specific hazards of the job. The OSHA 10 Hour Construction Industry Outreach Training course includes a comprehensive test to ensure understanding of the OSHA safety requirements and regulations.

| Day(s) | Start | End | Sessions | Time | Location | Instructor |
|--------|-------|------|----------|----------|-------------------|---------------|
| Wed | 7/7 | 7/28 | 4 | 5-8:30pm | Distance Learning | Dominguez Jr. |

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 have it available for class.

| Day(s) | Start | End | Sessions | Time | Location | Instructor |
|---------|-------|-----|----------|----------|-------------------|------------|
| Tue/Thu | 6/22 | 8/3 | 13 | 5-8:30pm | Distance Learning | Miranda |

STRUCTURED CABLING

An in depth look at the terminations and installation procedures for Copper Structured Cabling. Students will learn the history and progression of copper cabling as it applies to data transmission for telephone and internet connections. This course involves both hands-on labs and lecture via Zoom. Lecture sessions via Zoom on odd weeks. Hands-on labs sessions at ETI on even weeks.

| Day(s) | Start | End | Sessions | Time | Location | Instructor |
|--------|-------|-----|----------|----------|--------------|------------|
| Tue | 5/4 | 8/3 | 14 | 5-8:30pm | Zoom/111/112 | Finneran |

YOUR 401K Investments

A representative from John Hancock Retirement Plan services will be conducting an education meeting to give you an overview of the Plan, help you make the most of planning for your retirement, and give you a brief overview of the Plan website and tools available to you. Open to all member.

| Day(s) | Start | End | Sessions | Time | Location | Instructor |
|--------|-------|------|----------|----------|-------------------|------------------------------|
| Fri | 7/16 | 7/16 | 1 | 4:30-7pm | Distance Learning | Hancock Retirement Plan Svcs |

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) | Start | End | Sessions | Time | Location | Instructor |
|--------|-------|------|----------|----------|-------------------|------------|
| Fri | 7/30 | 7/30 | 1 | 4:30-7pm | Distance Learning | 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 DATE

| Start Date | End Date | Class ID | Description |
|------------|------------|-------------|--------------------------------------------------------------|
| 05/04/2021 | 08/03/2021 | 2021J26731 | Structured Cabling |
| 05/07/2021 | 05/07/2021 | 2021J261801 | CPR, AED And First Aid For Adults |
| 05/14/2021 | 05/14/2021 | 2021J28341 | Code Calculations: Box Fill |
| 05/18/2021 | 06/17/2021 | 2021J28311 | CALCTP Acceptance Technician (AT) |
| 05/20/2021 | 05/20/2021 | 2021J261821 | CPR, AED And First Aid For Adults |
| 05/21/2021 | 05/21/2021 | 2021J28351 | Code Calculations: Conductor Ampacity |
| 05/21/2021 | 05/21/2021 | 2021J261802 | CPR, AED And First Aid For Adults |
| 05/25/2021 | 07/01/2021 | 2021J27631 | Electrical Certification State Exam Prep |
| 05/26/2021 | 05/26/2021 | 2021J261822 | CPR, AED And First Aid For Adults |
| 05/27/2021 | 07/29/2021 | 2021J28461 | Fire/Life Safety & Voice-Data-Video State Certification Prep |
| 06/02/2021 | 08/04/2021 | 2021J26751 | Fiber Optic Cabling |
| 06/02/2021 | 08/04/2021 | 2021J27171 | Fire Alarm Installations |
| 06/04/2021 | 06/04/2021 | 2021J261804 | CPR, AED And First Aid For Adults |
| 06/04/2021 | 06/04/2021 | 2021J261803 | CPR, AED And First Aid For Adults |
| 06/05/2021 | 06/12/2021 | 2021J26851 | Motor Controls, Basic |
| 06/07/2021 | 06/07/2021 | 2021J261805 | CPR, AED And First Aid For Adults |
| 06/10/2021 | 06/10/2021 | 2021J261806 | CPR, AED And First Aid For Adults |
| 06/11/2021 | 06/11/2021 | 2021J28371 | Code Calculations: Raceway Fill |
| 06/15/2021 | 06/24/2021 | 2021J26111 | Bluebeam |
| 06/22/2021 | 08/10/2021 | 2021J28182 | CALCTP Technical |
| 06/22/2021 | 08/03/2021 | 2021J27441 | OSHA 30/EM-385 Construction Hazard Awareness |
| 06/23/2021 | 08/16/2021 | 2021J28181 | CALCTP Technical |
| 06/23/2021 | 06/23/2021 | 2021J261807 | CPR, AED And First Aid For Adults |
| 06/25/2021 | 06/25/2021 | 2021J28361 | Code Calculations: Voltage Drop |
| 06/25/2021 | 06/25/2021 | 2021J261808 | CPR, AED And First Aid For Adults |
| 06/28/2021 | 06/28/2021 | 2021J261809 | CPR, AED And First Aid For Adults |
| 06/30/2021 | 06/30/2021 | 2021J261810 | CPR, AED And First Aid For Adults |
| 07/07/2021 | 07/28/2021 | 2021J27431 | OSHA 10 |
| 07/09/2021 | 07/09/2021 | 2021J28191 | Confined Space Entry Hazard Awareness |
| 07/09/2021 | 07/09/2021 | 2021J261812 | CPR, AED And First Aid For Adults |
| 07/09/2021 | 07/09/2021 | 2021J261811 | CPR, AED And First Aid For Adults |
| 07/13/2021 | 07/13/2021 | 2021J261813 | CPR, AED And First Aid For Adults |
| 07/13/2021 | 08/03/2021 | 2021J26021 | Electric Vehicle Infrastructure Training Program (EVITP) |
| 07/15/2021 | 07/15/2021 | 2021J261814 | CPR, AED And First Aid For Adults |
| 07/16/2021 | 07/16/2021 | 2021J27981 | Your 401K Annuity Plan |
| 07/19/2021 | 07/19/2021 | 2021J261815 | CPR, AED And First Aid For Adults |
| 07/30/2021 | 07/30/2021 | 2021J27971 | Your Pension & Health/Welfare |
| 07/24/2021 | 07/31/2021 | 2021J26112 | Bluebeam |
| 07/28/2021 | 07/28/2021 | 2021J261816 | CPR, AED And First Aid For Adults |
| 07/28/2021 | 08/04/2021 | 2021J27721 | NFPA 70E Arc Flash Hazard Awareness |
| 08/02/2021 | 08/02/2021 | 2021J261817 | CPR, AED And First Aid For Adults |
| 08/06/2021 | 08/06/2021 | 2021J261819 | CPR, AED And First Aid For Adults |
| 08/06/2021 | 08/06/2021 | 2021J261818 | CPR, AED And First Aid For Adults |
| 08/11/2021 | 08/11/2021 | 2021J261820 | CPR, AED And First Aid For Adults |