2017 Spring Continuing Education Class Schedule

Aerial Lift Safety

Day(s): Tuesday / Thursday 2 Sessions
Time: 5:00 PM – 8:00 PM
CE Hours: 6 Hours
Date(s): **February 7 & February 9, 2017**
Class Size: 20 Maximum
Instructor(s): Joseph Buhowsky
Room: 121
Description: Construction workers have the highest number of deaths among major industry groups. Aerial Lift incidents account for a significant portion of these deaths. You will learn the current best practices on how to operate and work safely from an aerial lift.
Required Material(s): No Material / No Costs **$0.00**

Advanced Lighting Control (CALCTP)

Day(s): Saturday 7 Sessions
Time: 8:00 AM – 4:30 PM 8:00 AM – 12:00 PM (May 6, 2017)
CE Hours: 52 hours
Date(s): **March 18 – May 6, 2017** Holiday: **March 25, 2017**
Class Size: 20 Maximum
Instructor(s): Joe Buhowsky
Room: 113
Description: Hands-on instruction for the Journeyman Electrician. This class will focus on the installation and commissioning of the latest efficiency lighting devices and control systems for energy management. Labs will utilize the latest devices from Lightolier, Lutron, Watt Stopper and GE. After completion of hours and final exam the student will be CALCTP State Certified. **Certificates will be issued 6 to 8 weeks after class has ended.**
Pre-Requisites: ***Must be California State Certified.***
Complete the following Prior to beginning class:
Log into the website: http://lightingcontrolsassociation.org
Click "Education Express: on the right hand side of the screen.
Register (Click here to register)
After you have created your log in information, log in and complete the following modules: **EE101 / EE102 / EE103 / EE201**
If you are unable to register, the instructor will assist you on the first session of class and discuss how to printout your results.
Required Material(s): Advanced Lighting CALCTP Training Material Thumb Drive **$5.00**

Advanced Lighting Control-Acceptance Technician (CALCTP-AT)

Day(s): Saturday 2 Sessions
Time: 8:00 AM – 4:30 PM
CE Hours: 16 hours
Date(s): **May 13 & May 20, 2017**
Class Size: 20 Maximum
Instructor(s): Joe Buhowsky
Room: 113
Description: Lighting controls acceptance testing, introduction and installation requirements, acceptance test procedures, exercises and laboratory sessions, review and exam. **State registration fee required**. **Certificates will be issued 6 to 8 weeks after class has ended.**
Prerequisite(s): **Must be CALCTP Certified.**
Must Pre-resister:
https://www.calctp.org/acceptance-technicians-become
Letter of Acceptance from CALCTP.org must be provided at time of JATC registration.
Required Material(s): Thumb Drive **$5.00**

2017 Spring Continuing Education Class Schedule

AutoCAD-Getting Started with Detailing in 2D CAD

Day(s): Tuesday & Thursday 8 Sessions
Time: 5:00 PM – 8:00 PM
CE Hours: 24 hours
Date(s): **February 21, - March 16, 2017**
Class Size: **12** Maximum
Instructor(s): Susan Bowron
Room: 109
Description: Gain a different understanding of how to design and thing about the electrical field. Learn how to create your own redlines directly into a 2D CAD environment. This will eliminate transferring from paper to computer, allow changes/updates to be directly affected by the detailer

Prerequisite(s): **Successful completion of the written "Basic Computer Skills Test".**
Deadline to take Skills Test is Thursday, February 16 @3:30 PM
(preferably taken during enrollment), please allow 60 minutes for testing.

Required Material(s): No Materials Required **$0.00**

AutoCAD-Steps into 3D MEP Modeling & Navisworks

Day(s): Tuesday & Thursday 12 sessions
Time: 5:00 PM – 8:00 PM
CE Hours: 36 hours
Date(s): **March 21, - April 27, 2017**
Class Size: **12** Maximum
Instructor(s): Susan Bowron
Room: 109
Description: You will learn how to organize files, create 3D objects, build the electrical design in 3D and to utilize the drawing as a data resourc3e. Skills in Navis Manage will be taught as a part of this session. In Navisworks Manage you will learn how to add, hide, move and most importantly navigate through a building to review the electrical design. You will learn how to save viewpoints and do clash detection.

Prerequisite(s): **Successful completion of the written "Basic Computer Skills Test" and "Get Started with Detailing in 2D CAD" course.**
Basic computer knowledge is required.

Required Material(s): No Materials Required **$0.00**

AutoCAD-Digital Construction Drawings

Day(s): Tuesday & Thursday 4 Sessions
Time: 5:00 PM – 8:00 PM
CE Hours: **12 hours**
Date(s): **May 2 – May 11, 2017**
Class Size: **12** Maximum
Instructor(s): Susan Bowron
Room: 109
Description: Learn how to turn 2D and 3D CAD information into construction drawings and details for the field. Streamline updates, track changes and allow easier access to construction prints.

Prerequisite(s): **Basic computer knowledge required and successful completion of "Detailing in 2D CAD Class" and "3D MEP Modeling Class"**

Required Material(s): No Materials Required **$0.00**

2017 Spring Continuing Education Class Schedule

AutoCAD-Digital Construction Drawings

Continuation from 2016 Fall AutoCAD Courses

Day(s): Tuesday & Thursday 8 Sessions
Time: 5:00 PM – 8:00 PM
CE Hours: 24 hours
Date(s): January 10 – February 2, 2017
Class Size: 12 Maximum
Instructor(s): Susan Bowron
Room: 109
Description: Learn how to turn 2D and 3D CAD information into construction drawings and details for the field. Streamline updates, track changes and allow easier access to construction prints.
Prerequisite(s): **Basic computer knowledge required and successful completion of "Detailing in 2D CAD Class" and "3D MEP Modeling Class"**

Required Material(s): No Materials Required **$0.00**

Building Automation Installation

Day(s): Tuesday 11 Sessions
Time: 5:00 PM – 8:00 PM
CE Hours: 33 Hours
Date(s): January 17, – March 28, 2017
Make-up: April 4, 2017
Class Size: 20 Maximum
Instructor(s): David Gilfillan
Room: 119
Description: Introduction to Building Automation Systems. The student will gain experience in wiring and integration of different building systems. Hands-on labs feature a variety of technologies including Lonworks, Bacnet and Legacy. Class time will focus on hands-on exercises that provide the skills necessary for success when working on Building Automation Systems.

Required Material(s):

Building Automation Textbook	$75.00
Building Automation Student Workbook	30.00
Alameda JATC Building Automation Materials (Portfolio)	$.00
	$105.00

Code Changes and Review (2014 NEC)

Day(s): Saturday 1 Session
Time: 8:00 AM to 2:30 PM
CE Hours: 6 hours
Date(s): April 15, 2017
Class Size: 20 Maximum
Instructor(s): Dan Holgate
Room: 104
Description: The 2014 NEC (2016 CEC) has been adopted and is the code currently enforced. Typical to the 3-year code cycle, Sections are revised, new Sections and Articles are added to support immerging technologies and conform to current safety research. This class is an attempt to provide both a preview of coming attractions in the NEC, and to place this new material in the context of our existing code knowledge.

The class will draw upon the instructor's experience as a building inspector, JATC instructor and illustrated by the many pictures that have been taken of building projects at UC Berkeley. Discussion and questions are encouraged, so that everyone's experience may benefit the class.

Required Material(s): 2014 National Electrical Code **$85.00**

2017 Spring Continuing Education Class Schedule

Computer Basics-Excel, Outlook & Word

Day(s): Saturday 1 Session
Time: 8:00 AM – 3:00 PM
CE Hours: 6.5 hours
Date(s): **TBD**
Class Size: **10** Maximum
Instructor(s): Jason Kaneko / Deanna Murchison
Room: 109
Description: This class will provide you with the ability to create and edit a basic worksheet, form simple calculations and formatting basics, send and respond to email, as well as maintain your contacts, calendar, schedule meetings, and work with tasks and notes. You will be introduced to simple word processing, and techniques for performing basic editing functions in a document, creating, naming, saving and opening/closing files.
Required Material(s): Alameda JATC Computer Training Materials (includes meal) **$15.00**

Conduit Bending Fabrication

Day(s): Tuesday 11 Sessions
Time: 5:00 PM to 8:00 PM
CE Hours: 33 hours
Date(s): **January 17 – April 4, 2017** **Holiday(s):** Spring Break: March 21, 2017
Class Size: 10 **Maximum**
Instructor(s): Jimmy Peterson
Room: 125
Description: This hands-on course will provide the training necessary for bending ½" to 4" EMT and rigid conduit with the use of hand benders, mechanical (Chicago) benders and hydraulic benders**. Bring your: tape measure, torpedo level, protractor, pencil, calculator and anti-dog level.** The Tool Lab has been equipped with several multi-level trapezes with three large gutters, to simulate real life situations that may be encountered on the job.
Required Material(s): Alameda JATC Conduit Bending Training Materials / Composition Book **$25.00**
Electricians Guide to Conduit Bending-3rd Edition **$15.00**
$40.00

Confined Space Training

Day(s): Saturday 1 Session
Time: 8:00 AM to 4:30 PM
CE Hours: 8 hours
Date(s): **May 6, 2017**
Class Size: 15 **Maximum**
Instructor(s): Joseph Buhowsky
Room: 113
Description: On May 1, 2015 the Confined Spaces in Construction Standard was issued (OSHA Subpart AA, 1926, 1200). This course will cover permit and non-permit confined space safe entry requirements, OSHA regulations and protective equipment. Class includes use of air sampling device ventilation equipment and confined space entry with retrieval equipment.

This training does not qualify employees to enter Permit-Required Confined Spaces.

Required Material(s): Alameda JATC Confined Space Training Material **$25.00**

2017 Spring Continuing Education Class Schedule

CPR / First Aid

Day(s): Saturday 1 Session
Time: 8:00 AM – 2:00 PM
CE Hours: 6 hours
Date(s): Class 1: **February 11, 2017**
Date(s): Class 2: **March 18, 2017**
Date(s): Class 3: **May 6, 2017**
Class Size: 12 **Maximum**
Instructor(s): Paul Rodgers
Room: 104
Description: Certification in emergency response CPR and Basic First Aid.
Required Material(s): CPR/First Aid/ Card(s) **$20.00**
Alameda JATC CPR/First Aid Training Materials **$15.00**
$35.00

Fire Alarm Hands-On & Code

Day(s): Saturday 3 Sessions
Time: 8:00 AM to 2:00 PM
CE Hours: 18 hours (6 hours lecture, 12 hours lab)
Date(s): **March 4, March 11 and March 18, 2017**
Class Size: **20** Maximum
Instructor(s): Donald Dones
Room: 114
Description: Students will pull wire, terminate, activate and troubleshoot a fire alarm system. This class will help prepare the student for the CA state Fire Alarm Certification. Topics include the placement and utilization of equipment.
Required Material(s): NFPA 72 National Fire Alarm Code Book (2013 edition) **$100.00**

Fire Alarm Hands-On & Programming-Advanced 1

Day(s): Saturday 3 Sessions
Time: 8:00 AM to 2:00 PM
CE Hours: 18 hours
Date(s): **March 25, April 1, & April 8, 2017**
Class Size: **10** Maximum
Instructor(s): Donald Dones
Room: 114
Description: Advanced maneuvering through the 2013 NFPA Code Book, and advanced wiring and programming of Fire Alarm Systems.
Prerequisite(s): ***Fire Alarm Hands-On & Code***
Required Material(s): No Materials / No Cost **$0.00**

2017 Spring Continuing Education Class Schedule

Fire Alarm Hands-On & Programming-Advanced 2

Day(s): Saturday 3 Sessions
Time: 8:00 AM to 2:00 PM
CE Hours: 18 hours
Date(s): April 15, April 22, & April 29,2017
Class Size: 10 Maximum
Instructor(s): Donald Dones
Room: 114
Description: Advanced programming and wiring
Prerequisite(s): *Fire Alarm Hands-On & Code and Fire Alarm Hands-On and Programming-Advanced 1*
Required Material(s): No Materials / No Cost **$0.00**

Motor Control-Beginning

Day(s): Tuesday 12 Sessions
Time: 5:00 PM to 8:00 PM
CE Hours: 36 hours
Date(s): February 7 – May 2, 2017 Holiday: Spring Break: March 21, 2017
Class Size: 16 **Maximum**
Instructor(s): Arthur (Chico) Hernandez
Room: 120
Description: Lecture and hands-on training/basic wiring on magnetic motor starters, motors, timers, replay, control devices along with NEC Article 430.
Required Material(s): Understanding Basic Motor Controls Textbook **$42.00**
Training Materials, Composition Book **$3.00**
$45.00

NFPA 70E / Arc-Flash Training-(Week Day)

Day(s): Monday / Wednesday 5 Sessions
Time: 5:00 PM – 8:00 PM
CE Hours: 15 hours
Date(s): May 3 – May 17, 2017
Class Size: 20 **Maximum**
Instructor(s): Joe Buhowsky
Room: 113
Description: **If you do not fully understand 70E you are putting your crew, company and client at risk.** This course will focus on the NFPA 70E: Standard for Electrical Safety in the Workplace (2015). Topics include hazard assessment, who's responsible, *justification* for energized work, energized electrical work permits, PPE selection and limitations. "Safety Training" is required every 3 years to be considered a "Qualified Person".

NECA Members Encouraged to Attend

Required Material(s): NFPA 70E Standard for Electrical Safety in the Workplace Code Book (2015) **$65.00**

2017 Spring Continuing Education Class Schedule

NFPA 70E / Arc-Flash Training-Saturday

Day(s): Saturday 2 Sessions
Time: 8:00 SM – 4:30 PM
CE Hours: 16 hours
Date(s): March 4 & March 11, 2017
Class Size: 20 **Maximum**
Instructor(s): Joe Buhowsky
Room: 113
Description: **If you do not fully understand 70E you are putting your crew, company and client at risk.** This course will focus on the NFPA 70E: Standard for Electrical Safety in the Workplace (2015). Topics include hazard assessment, who's responsible, *justification* for energized work, energized electrical work permits, PPE selection and limitations. "Safety Training" is required every 3 years to be considered a "Qualified Person".

NECA Members Encouraged to Attend

Required Material(s): NFPA 70E Standard for Electrical Safety in the Workplace Code Book (2015) **$65.00**

OSHA-10

Day(s): Saturday 2 Sessions
Time: 8:00 AM to 2:30 PM
CE Hours: 12 hours
Date(s): April 1 & April 8, 2017
Class Size: 20 **Maximum**
Instructor(s): Jimmy Peterson
Room: 125
Description: This course will familiarize student with occupational and health hazards related to the construction industry.

OSHA-10 card issued upon successful completion of all classes.

Required Material(s): Alameda JATC OSHA-10 Training Materials **$15.00**

OSHA-30

Day(s): Saturday 5 Sessions (including OSHA-10)
Time: 8:00 AM – 3:30 PM
CE Hours: 32 hours
Date(s): April 1, April 8, April 15, April 22 and April 29, 2017
Class Size: 20 **Maximum**
Instructor(s): Jimmy Peterson
Room: 125
Description: This course will familiarize student with occupational and health hazards related to the construction industry.

OSHA-30 card issued upon successful completion of all classes.

Prerequisite(s): ***Must Attend the OSHA-10 Sessions above unless you have taken OSHA-10 within the same semester with the same instructor.***

Required Material(s): Alameda JATC OSHA-30 Training Materials (Same as OSHA-10) **$15.00**

2017 Spring Continuing Education Class Schedule

Rigging

Day(s): Saturday 3 Sessions
Time: 8:00 AM to 2:30 PM
CE Hours: 18 hours
Date(s): April 22, April 29 & May 6, 2017
Class Size: 20 **Maximum**
Instructor(s): Kurt Dembrowicz
Room: 119
Description: Students will become an OSHA qualified rigger according to OSHA 1926. It's a lifetime certification. You must pass the final test with a 75% or higher to receive credit for the class and certification. Learn how to rig forklifts, boom trucks, digger derricks, and cranes. Certification and Certificates will be issued. **Certificates will be issued approximately 2 – 3 weeks after class has ended.**

Required Material(s):	NJATC Rigging Textbook, Workbook, Certification and Pocketsize Rigging Information Card	**$90.00**

Solar Photovoltaics-1 (2014 NEC)

Day(s): Tuesday / Thursday / Saturday 9 Sessions
Time: 5:00 PM – 8:00 PM (Tuesday & Thursday)
8:00 AM to 4:30 PM ((1) Saturday))
CE Hours: 32 hours
Date(s): April 25 – May 18, 2017
Dates(s): May 13, 2017 (Saturday) Solar Skills
Class Size: 14 Maximum
Instructor(s): Bill Kenney
Room: 121
Description: This course will teach electricians how to design, install and maintain a Solar Photovoltaic Systems on a residential or commercial building.

Required Material(s):	Understanding NEC requirements for Solar Photovoltaic Systems Textbook	**$60.00**
	Solar Photovoltaics Instruction Materials (including shortcut Thumb Drive)	**$10.00**
		$70.00

Solar Photovoltaics-2 (2014 NEC)

Day(s): Saturday 4 Sessions
Time: 8:00 AM to 4:30 PM (Saturday)
CE Hours: 32 hours
Date(s): April 15 – May 6, 2017
Class Size: 14 Maximum
Instructor(s): Bill Kenney
Room: 121
Description: This course will teach electricians how to design, install and maintain a Solar Photovoltaic Systems on a residential or commercial building.

Required Material(s):	Understanding NEC requirements for Solar Photovoltaic Systems Textbook	**$60.00**
	Solar Photovoltaics Instruction Materials (Thumb Drive)	**$10.00**
	Contains the identical curriculum as class listed above.	**$70.00**

2017 Spring Continuing Education Class Schedule

State Exam Prep Class-Saturday (2014 NEC)

Day(s): Saturday 3 Sessions
Time: 8:00 AM to 12:00 PM
CE Hours: 0 hours
Date(s): **February 4 – February 25, 2017** Holiday: Presidents Weekend: February 18, 2017
Class Size: 30 **Maximum**
Instructor(s): Joseph Buhowsky
Room: 113
Description: Beginning January 1, 2017, the California Electricians Certification Exam will be based on the 2014 NEC. If you require extra help passing the certification exam, this class is for you. Get familiar with the NEC and material covered, test taking tips and tricks, with plenty of practice question. Bring your copy of the 2014 NEC. The Exam website shows a 45% Pass Rate!

This course contains the same curriculum as the State Exam Prep Class-WD.

These hours do not contribute to the 32 hours required for re-certification.

Required Material(s):

National Electrical Code (2014 edition)	**$85.00**
Alameda JATC State Exam Prep Materials	**$5.00**
	$90.00

Surveying-Basic

Day(s): Saturday 1 Session
Time:
CE Hours: 3 hours
Date(s): **TBD**
Class Size: 20 **Maximum**
Instructor(s): John May
Room:
Description: Basic Surveying and Field Engineering for Journeymen. We will discuss coordinate geometry, field surveying practices, field procedures, cut sheets and plan interpretation, layout control, staking plan sheets, and reading survey stakes. **Bring your calculators.**

Required Material(s): No Materials / No Cost **$0.00**

Traffic Signals & Street Lighting Installations

Day(s): Saturday 3 Sessions
Time: 8:00 AM – 2:30 PM
CE Hours: 18 hours
Date(s): **April 1, April 8 & April 15, 2017**
Class Size: 16 **Maximum**
Instructor(s): Kurt Dembrowicz
Room: 119
Description: This course will teach students how to properly install traffic signal wiring projects and street lighting installation. In addition, the student will learn about local and Caltrans codes, erection of light poles, construction of pole bases and drilling will also be covered. **Bring your Hand Tools**.

Required Material(s): Alameda JATC Traffic Signal Training Materials **$75.00**

2017 Spring Continuing Education Class Schedule

Local 595 Administered Class:

Labor Studies

(A light dinner will be served)

Day(s): **Tuesday / Thursday**
Time: 5:00 PM – 8:00 PM
Hours: 12 hours
Dates(s): **Session 1: February 28, March 2, March 7 and March 9, 2017**
Date(s): **Session 2: May 9, May 11, May 16 and May 18, 2017**
Instructor(s): Matt Maloon and Tracy Prezeau
Location: **IBEW 595 Office**
6250 Village Parkway
Dublin, CA 94568

Description: A good Foreman should be aware of the various policies and procedures of IBEW 595. This course will provide the foreman with important information to ensure that the projects that they manage run smoothly and efficiently. Topics covered: The Collective Bargaining Agreement, IBEW 595 Job referral Procedures, Portability and Clearances, and California jobsite requirements.

A good working relationship between the foreman and job steward will facilitate a successful project. This course will also include a certified steward training class to increase the understanding of the role played by each on the jobsite.

The Labor Studies Class is a requirement of the Foreman Call by Name Provision of IBEW Local 595 job referral.

To register contact IBEW Local 595 at: (925)556-0595

NECA Administered Class:

Electrical Project Supervision, Level -1

Day(s): Mon / Tues / Wed
Time: 4:00 PM – 8:00 PM
Hours: 24 hours
Date(s): **No Dates Scheduled at this time**
Class Size: 20 Maximum
Instructor(s): Bob Tieman
Location: **Nor Cal NECA Office**
6300 Village Pkwy, Suite 200
Dublin, CA 94568

Description: A good foreman is often a company's most valuable asset. This course will provide important knowledge and skills for foremen with a wide range of responsibilities. It will enrich an understanding of the business and process of construction and enable IBEW foremen to ensure that work is done correctly, safely, within budget and on time. Anyone interested in improving their skills as a foreman should attend this training class. This class is a requirement to qualify for foreman callout by name.

Must attend All Classes to Receive a Certificate of Completion. No make-up classes allowed.

To register contact Juanita Mitchell at NorCal NECA: (925)828-6322

Alameda County Electrical JATC - Continuing Education Class Registration

Registration by Mail:

1. **In order to process your registration, please enter the following contact information.**

*Social Security #: xxx-xx- _____ (Last four digits only)

*Name: _____
Last First M.I.

*Mailing Address: _____

_____
City State Zip

*Telephone Number: ( ) _____ ( ) _____
Home / Evening Cell

E-mail Address: _____

*IBEW Card #: _____

*These items mandatory for registration

Check One: ☐ Inside Wireman ☐ Sound & Communication ☐ Other

2. **List the classes you wish to attend.**

Date	Description	Material Fee (if any)	Book Fee

Total Amount Enclosed $_____

(You will be notified if any class is full, cancelled or starting date is rescheduled.)

3. **Make checks or money orders payable to:** Alameda County Electrical JATC
and mail to the following address:

Alameda County Electrical JATC
14600 Catalina St.
San Leandro, CA 94577

(Sorry, we request *Cash/Credit Card payment in person only*)
No fax or telephone orders accepted.

Questions? Call (510) 351-5282

OFFICE USE ONLY

Amount Rec'd: $_____

Check #: _____ Visa M/C CASH

Date Received: _____ Rec'd By: _____ Confirmed By: _____

Enrolled Dues Pay Thru:

_____ _____

Class (5615): $ _____
Books (5617): $ _____
CALCTP (5645): $ _____

Refund Req'd: Date: _____ Ck #: _____ Initials: _____

There will be no refunds to those who are enrolled in a class and do not attend.

Registration, material or book fees will not be deposited until the day after classes begin. If a refund is requested and granted due to class cancellation or rescheduling, your funds will be returned by the original method of payment (return of your uncashed check). If you registered using your credit or ATM card, your funds will be returned by check. Any cash transactions must be picked-up and signed for at the JATC Office.

If you wish to change the method of receipt of this document, please e-mail us: info@595jatc.org

2017 Spring
Continuing Education
Class Schedule

Alameda County Electrical JATC
14600 Catalina Street
San Leandro, CA 94577