OUR VISION

To offer the finest trades training possible, to support national standards and ensure a ***strong electrical industry****.*

ELECTRICAL JOINT TRAINING COMMITTEE

WINTER 2024

Journeyperson Upgrading Programs

Check us out **@ www.ejtc.org**

We are on:

IBEW Local 213 & ECABC

ELECTRICAL JOINT TRAINING COMMITTEE

ELECTRICAL CODE: 25th Ed. - 2021

Cost: $78.75 non-refundable administration fee (includes GST) **Instructor: Mark Stevens**

ONLINE VIA ZOOM

January 9 – March 14, 2024 Tuesdays & Thursdays Time: 6:00-8:30pm 20 sessions/50 hours total

This 50 hour course is based on the New BC Electrical Code Regulation 2021 (25th Edition) and includes the changes to the 2021 BC Code. The course is designed for Electricians, Technologists, Technicians, Electrical Engineers and Electrical Contractors planning to upgrade their knowledge of the Code.

This course is also for those planning to write the Field Safety Representative A, B or C Exams. Instruction covers all sections of the Code, Amendments, Directives, Bulletins, Acts and Regulations.

*2021 Code Book is required. Please note that the EJTC does not sell code books at this time.

CODE REFRESHER

Cost: $78.75 non-refundable administration fee (includes GST) **Instructor: Mark Stevens**

ONLINE VIA ZOOM

January 20, 2024 Saturday Time: 8:00am – 4:30pm 1 session/8 hours total

OR

March 16, 2024 Saturday Time: 8:00am – 4:30pm 1 session/8 hours total

British Columbia has adopted the 2021 version of the Canadian Electrical Code. The new version includes several changes to support electrical workers in the safe installation and maintenance of electrical equipment and systems. This course provides an in-depth overview of the 2021 Canadian Electrical Code and the changes to BC's Acts and Regulations. The course includes interpretations and applications of the code, as well as new definitions and tables. FSRs should renew their certification on or before the expiry date listed on their wallet cards. This course will provide Class A, B or C FSRs the 8 hours of continuing education required for certificate renewal.

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*2021 Code Book is recommended. Please note that the EJTC does not sell code books at this time.

CONDUIT BENDING

Cost: $163.75 ($78.75 non-refundable administration fee + $85.00 books – includes GST) **Instructor: James McKenna**

January 27 & January 28, 2024 Saturday & Sunday Time: 8:30am – 4:30pm 2 sessions/16 hours total

Location: ON-CAMPUS at EJTC Training Center (1405 Broadway Street, Port Coquitlam)

This course is for those electricians who would like to increase their conduit fabrication skill level. You will learn how to fabricate Offsets, Kicks, Three Bend Saddles Four Bend Saddles, Goosenecks and Rolling Offsets. You will learn the Traditional method, Push Through method and the Multiplier method for bending conduit. We will be using ½" and ¾" emt conduit. Please note that this is not a 'power bender' course. Note! Safety footwear and hand tools required.

NEW! Must have basic computer skills and ability to access a computer with Windows 8 (or later) and internet for homework assignments as required.

ELECTRICAL JOINT TRAINING COMMITTEE

ELECTRIC VEHICLE INFRASTRUCTURE TRAINING PROGRAM (EVITP)

Cost: $142.50 ($78.75 non-refundable administration fee + $63.75 EVITP Certification Exam fee - includes GST)

ONLINE VIA ZOOM — Monday-Thursday (over two weeks) — **Instructor: Neil Normandeau**

DATES:

Week 1:	**Week 2:**	EXAM: ON CAMPUS	8 sessions total
Jan. 29 – 5:30pm-8:30pm	Feb. 5 – 5:30pm-8:30pm	Saturday, February 10, 2024	(24 hours + 3 hour exam)
Jan. 30 – 5:30pm-8:30pm	Feb. 6 – 5:30pm-8:30pm	9:00am – 12:00pm	
Jan. 31 – 5:30pm-8:30pm	Feb. 7 – 5:30pm-8:30pm	EJTC Training Center	
Feb. 1 – 5:30pm-8:30pm	Feb. 8 – 5:30pm-8:30pm	1405 Broadway Street, Port Co.	

►**Prerequisite: Must be a Journeyperson Electrician (a copy of your Red Seal Certification of Qualification will be required!)**
► **Note! Full attendance is required to write the EVITP certification exam.**

This course is an Industry driven collaborative effort. The Electric Vehicle Infrastructure Training Program (EVITP) delivers the highest standard in training and certification for the installation of Electrical Vehicle Supply Equipment (EVSE). To be included in the course:

- Automobile Manufacturer's charging specifications
- EV battery types, charging characteristics
- Customer service/relations
- Utility interconnect policies and requirements
- Utility grid stress precautions
- Installing, commission and maintaining electrical storage devices
- Charging station fundamentals
- Service level assessments and upgrade implementation
- Canadian Electrical Code requirements
- First Responder safety and fire hazard measures
- Site Surveys

You will require a 2021 Code Book and non-programmable calculator. →Please note: the EJTC does not sell Code Books at this time*

HEATING, VENTILATION AND AIR CONDITIONING (HVAC) SEMINAR

Cost: FREE — **Instructor: Farzan Poursoltani**

ONLINE VIA ZOOM

February 28, 2024 Wednesday Time: 5:00pm – 8:00pm 1 session/3 hours total

As electricians, we are required to provide power for HVAC equipment, and as a Controls electrician, we need to be able to wire and troubleshoot HVAC equipment in order to make it work effectively. This course will educate electricians about the function of HVAC equipment in relation to air, temperature, pressurization, humidity, etc.

In this three-hour seminar, we will go through slides and review the functionality of:

- Air-Handling units
- Variable-Air-Volume terminal boxes
- Hydronic HVAC Systems
- Heat Exchangers

ELECTRICAL JOINT TRAINING COMMITTEE

ARC FLASH TRAINING- CSA Z462 – 2021- CERTIFIED ELECTRICAL SAFETY INSTRUCTION

Cost: $78.75 non-refundable administration fee (includes GST)

ONLINE – INSTRUCTOR LED

February 14, 2024 Wednesday Time: 7:00am – 1:30pm 1 session/6 hours total

This course is offered through our partnership with Electricity Forum.

This 6-Hour live online, Instructor-led certified Arc Flash and Shock online electrical safety training course incorporates recent revisions to the 2021 Edition of CSA Z462 Arc Flash Electrical Safety in the Workplace Standard. This CSA Z462-2021 Workplace Electrical Safety Training Course Exceeds Canadian Arc Flash Training Requirements

Students will learn real-life examples and have their electrical safety questions answered by a safety professional with years of electrical safety experience in the development and implementation of a z462 training safety program.

BLUEBEAM ELECTRICAL ESSENTIALS

Cost: $78.75 non-refundable administration fee (includes GST) **Instructor: Electricity Forum**

ONLINE VIA ZOOM

January 15 – January 18, 2024 Monday – Thursday Time: 5:00pm-8:30pm 4 sessions/ 12 hours total

OPTIONAL, FOR ENROLLED PARTICIPANTS ONLY

INTRODUCTION SESSION

January 13, 2024 Saturday Time: 11:00am-1:00pm 1 session/2 hours total

This 12-hour live online instructor-led course introduces students to Bluebeam Revu software and teaches them how to rapidly solve electrical construction problems by finding and comparing information across multiple drawings and specifications. With that information, students will learn how to add value to those documents through updating completion visually and adding as-builts details at site. Our course focuses students on how to use the data imbedded in these document annotations to better manage resources such as time and budget.

What is Bluebeam?

Bluebeam Revu, a PDF editing markup and collaboration software tool that is used by architects, electrical engineers, electrical project managers and electrical estimators and journeymen electricians throughout the lifecycle of a building project. Bluebeam Revu software allows teams to compare documents, do estimations, and submit RFIs and plans for approval, and many other important software functions that allow for document control.

Who Uses It?

Lots of electrical industry experts in the electrical engineering and construction industries use Bluebeam. More than 90 per cent of the top construction organizations and more than 80 per cent of the top North American electrical design firms use Bluebeam because it saves time, boosts efficiency and allows team members to simultaneously work together. Essentially, Bluebeam is a powerful collaboration tool, allowing teams of electrical professionals in different locations and across various time zones to view and mark up a document at the same time, as if they were sitting in one room.

There will be an optional introductory session the weekend prior only for those enrolled in the course. This introduction comes highly recommended by the instructor. Further information will be sent to participants upon enrollment.

IMPORTANT: Bluebeam works within a MS Windows environment. At this time, Bluebeam does not have a version of review coded to run strictly on the Mac.

ELECTRICAL JOINT TRAINING COMMITTEE

THE CONSTRUCTION ELECTRICIAN (NOC 7241) SOLAR PHOTOVOLTAIC (PV) SYSTEMS PERSONNEL CERTIFICATION

Cost: $78.75 non-refundable administration fee (includes GST) **Instructor: NETCO**

ONLINE – SELF PACED/SELF LED LIMTED SEATS AVAILABLE

This course is offered through our partnership with NETCO.

The Construction Electrician (NOC 7241) Solar Photovoltaic (PV) Systems Personnel Certification has been developed by CSA Group in conjunction with the National Electrical Trade Council (NETCO) and industry stakeholders to provide assurance that an individual possesses the competencies deemed necessary to perform the job function of a Construction Electrician (NOC 7241) Solar Photovoltaic (PV) Systems Certified Electrician. The certification is designed to complement accreditation programs for verification bodies.

This certification has been developed in compliance with the ISO 17024 standard. ISO 17024 is the global benchmark for organizations operating personnel certification programs and outlines the methods and procedures required to ensure the objective and unbiased assessment of a candidate's knowledge, skills, and abilities. Passing the PVSC examination will indicate that the candidate possesses the knowledge, skills, and decision-making abilities necessary to practice the proper techniques to pre-plan, implement, configure, install, commission, troubleshoot and maintain solar PV systems.

FAQ:

Q: How long does the course take, and what are the approximate number of hours it takes to complete?
A: This is a completely asynchronous course, so there are no time restrictions. The course takes approximately 8 hours to do. Typically, it will take participants 1-2 months to complete if signing in after work. This course will allow members to do it at their own pace, whenever they would like.

Q: Is there a deadline for completing the course?
A: There is no timeline for how long this course should take. At most, this course should take 3 months.

Q: Is there a timeline for course material and the exam even though it is self-led?
A: This course is completely self-paced, and no timelines are enforced. Participants will have 3 tries for a 70% passing grade, if not, they are required to retake the course. There is a practice test provided prior to writing the final exam.

Q: Is the exam also online?
A: The exam is 100% online, self-proctored and accessible through the SaskPoly LMS. Participants just follow along their content tab and once they get to their exam, they write.

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TELC 0161: HIGH VOLTAGE

Cost: $78.75 non-refundable administration fee (includes GST)

IN-PERSON

January 20 – February 10, 2024 Saturdays Time: 8:00am-4:00pm 4 sessions/32 hours total

Location: BCIT (3700 Willingdon Avenue, Burnaby, Building SE-1)

No prerequisites are required for this course.

This course provides both theoretical and practical information relating to high voltage systems. Course topics include high voltage generation/transmission/distribution systems, high voltage cables and terminations, high voltage switchgear, high voltage safety and code requirements.

Please note the following message posted on the BCIT website:

- Students must wear steel-toed boots/shoes.
- In the case of course cancellation, students will be notified. Ensure your contact information (e.g. personal email address) is current.

ACIM 5010: PROGRAMMABLE LOGIC CONTROLLERS

Cost: $78.75 non-refundable administration fee (includes GST)

IN-PERSON

January 9 – February 22, 2024 Tuesdays & Thursdays Time: 5:00pm – 8:15pm 14 sessions/45 hours total

Location: BCIT (3700 Willingdon Avenue, Burnaby, Building SE-1)

Prerequisites: TELC 0130 Basic Motor Control and/or successful completion of Electrical Apprenticeship Level 2 or 3 or 4 program within the last 5 years. Electrical Journeyperson Certificate are also acceptable.

Two essential parts of automated control systems installations are measurement and control. This course will introduce various transducers that are encountered in automated control systems as this foundation is necessary for the installation, maintenance, and troubleshooting of analogue devices and programmable devices. Students will make power, signal, and communication connections for the programmable relay and interpret and write programs. Numerous troubleshooting exercises will be completed. Topics covered include installation, interfacing, closed loop control, trouble-shooting and testing, safety, and an introduction to monitoring.

Please note the following message posted on the BCIT website:

- BCIT reserves the right to cancel courses. In the event of cancellation, student will be notified five business days prior to the course start date. Ensure your contact information (e.g. personal email address) is current.

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ACIM 5020: ELEMENTS OF DRAFTING AND RENEWABLE ENERGY SYSTEMS

Cost: $78.75 non-refundable administration fee (includes GST)

IN-PERSON

February 24 – April 6, 2024 Saturdays Time: 8:00am – 4:00pm 6 sessions/45 hours total

Location: BCIT (3700 Willingdon Avenue, Burnaby, Building SE-1)

No class March 30, 2024 (Easter Weekend).

Prerequisites: None

This course is an introduction to the drafting and renewable energy systems concepts. Half of the course will be interpreting and creating electrical drawings. The drafting tools used will be AutoCad and Visio. The second half of the course will examine power monitoring and protective relaying. A review of work, power, and energy concepts will allow students to convert between units for mechanical, electrical, and thermal systems. To encourage the use of online resources and teamwork a power system monitoring lab is completed. The practical activities done by the student in the course reinforce the theory studied.

Please note the following message posted on the BCIT website:

- BCIT reserves the right to cancel courses. Ensure your contact information (e.g. personal email address) is current. In the event of cancellation, student will be notified three business days prior to the course start date.

ACIM 6020: SAFETY CONTROLS AND INTRINSICALLY SAFE SYSTEMS

Cost: $78.75 non-refundable administration fee (includes GST)

IN-PERSON

January 15 – March 4, 2024 Monday & Wednesday Time: 5:00pm– 8:15pm 14 sessions/45 hours total

No class February 19, 2024 (Family Day).

Location: BCIT (3700 Willingdon Avenue, Burnaby, Building SE-1)

Prerequisites: Successful completion of ACIM 5030 and ACIM 5040

This course covers installation, configuration, and programming for safety devices, safety controllers, and intrinsically safe devices that are widely used in industrial manufacturing and process control systems to ensure worker safety, and to protect equipment by inhibiting unwanted machine movement and preventing explosions. The student will make electrical connections to master shutdown devices that have supervised wiring including safety light curtains. A major activity will be the integration of field safety and intrinsically safe field devices into a Rockwell Guardlogix Safety PLC system.

Please note the following message posted on the BCIT website:

- BCIT reserves the right to cancel courses. In the event of cancellation, student will be notified five business days prior to the course start date. Ensure your contact information (e.g. personal email address) is current.