

## OUR VISION

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

# ELECTRICAL JOINT TRAINING COMMITTEE

SPRING 2025

## Journey person Upgrading Programs

Check us out @ [www.ejtc.org](http://www.ejtc.org)

We are on:





## ELECTRICAL CODE: 25<sup>th</sup> Ed. - 2021

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

Instructor: Mark Stevens

### ONLINE VIA ZOOM

April 8, 2025-June 12, 2025

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 (25<sup>th</sup> 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 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

April 12, 2025

Saturday

Time: 8:00am – 4:30pm

1 session/8 hours total

### OR

May 17, 2025

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.

**This course will provide Class A, B or C FSRs the 8 hours of continuing education required for certificate renewal.**

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

## CONDUIT BENDING

Cost: \$198.75 (\$78.75 non-refundable administration fee + \$120.00 books – includes GST)

Instructor: James McKenna

April 12-13, 2025

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.**



## ELECTRIC VEHICLE INFRASTRUCTURE TRAINING PROGRAM (EVITP)

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

**IN PERSON/ Zoom**

**Instructors:** James McKenna

**May 3-4, May 10**

Saturdays and Sundays Time 8:00am-4:30pm

**EXAM: Sunday, May 11, 2025, 9:00am-12:00pm**

4 Sessions Total (24 Hour+ 3-hour Exam during last session)

► **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: EJTC does not sell Code Books at this time\***

## HEATING, VENTILATION AND AIR CONDITIONING (HVAC) SEMINAR

**Cost:** FREE

**Instructor:** Farzan Poursoltani

**ONLINE VIA ZOOM**

**June 25, 2025**

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



## FIRE ALARM INSTALLATION

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

**Instructor:** Frank Kurz

### ON-CAMPUS

April 26-27

Saturdays & Sundays

Time: 8:00am – 4:30pm

6 sessions/48 hours total

May 3-4

May 10-11

**Location:** EJTC Training Center

This course will familiarize the journey person with fire alarm system field components and their proper installation. You will gain an in-depth understanding of circuit wiring, specifications, and the design/layout process in order to successfully install and troubleshoot data communication link circuits, indicating appliance circuits (bells, horns, strobes, egress path marker systems), and conventional fire alarm initiating circuits. Successful course graduates will be able to participate in the Commissioning and Verification processes and assist in preparing the documentation required by the Standard for Installation of Fire Alarm Systems and the British Columbia Building Code (including the Vancouver Building By-Law).

- Building Code and Standards Requirements
- Manufacturer's installation requirements
- Conventional Fire Alarm Control Panels
- Addressable Fire Alarm Control Panels
- Field device installation and wiring requirements
- Class "A" and Class "B" Wiring Circuits
- Duct detectors
- Air aspirating systems
- Isolators:
  - Data Communication Link
  - Power Buss
  - In-suite Sounders
- Emergency Voice Communication Systems
- Networked systems
- Introduction to programming
- Terminating a fire alarm control panel
- Ancillary device circuits (door holders, smoke control systems, interconnection to the fire signal receiving centre transmitter)
- Elevator control
- Extinguishment system interconnection
- Remote annunciators (Code requirements, wiring)
- The Verification
- Fire alarm system design fundamentals
- Troubleshooting:
  - Ground faults
  - Open circuits
  - Class A Wiring
- Smoke detectors in lieu of smoke alarms
- Integrated Life Safety Systems Testing (CAN/ULC-S1001) fundamentals
- Installation dos and don'ts



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

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

**Instructor:** SASKATCHEWAN POLYTECHNIC VIA NETCO

### **ONLINE – SELF PACED/SELF LED**

This course is offered through our partnership with NETCO.

Arc flash and Shock Safety is designed to educate electricians on proper safety measures and procedures to prevent accidents or injury caused by arc flash and electrical shock. Participants will learn about the dangers and causes of arc flash and electrical shock, the types of personal protective equipment (PPE) required, and how to properly use and maintain PPE.

This course will cover Canadian regulations and standards related to arc flash and shock safety, as well as best practices for working safely on electrical equipment. Following course completion, participants will have the knowledge to keep themselves and their colleagues safe, while working with electrical equipment.

### **COURSE 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.



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

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

**Instructor:** SASKATCHEWAN POLYTECHNIC VIA NETCO

### **ONLINE – SELF PACED/SELF LED**

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.



## INTRODUCTION TO CONSTRUCTION ESTIMATING

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

**Instructor:** SASKATCHEWAN POLYTECHNIC VIA NETCO

### **ONLINE – SELF PACED/SELF LED**

This course is offered through our partnership with NETCO.

For people working in estimating or for any individual who wants to become an estimator. Gain the knowledge and skills required to visualize the scope and magnitude of construction project and produce accurate and reliable estimates. Course work includes reviewing drawings through various phases of a project with the aim of determining the quantity and type of materials required for the project.

- Have a good understanding of estimating practices.
- Know site-specific conditions and regulatory requirements.
- Know how to handle purchasing and logistics, and how to manage materials on site.
- Organize cost data in a clear and logical manner.
- Be able to manage historical information related to costs and know how and when to update this information.
- Know how to assemble bids and meet bid closure deadlines.
- Provide on-site solutions to work-related problems in relation to equipment and material placement.

### **COURSE 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 3 hours to do. 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.

**Q: Is there a timeline for course material even though it is self-led?**

A: This course is completely self-paced, and no timelines are enforced.



## FIRST LEVEL SUPERVISOR TRAINING PROGRAM

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

**Instructor:** SASKATCHEWAN POLYTECHNIC VIA NETCO

### **ONLINE – SELF PACED/SELF LED**

This course is offered through our partnership with NETCO.

For supervisors, foremen, or any individual who wants to become a First Level Supervisor. Develop the critical skills and learn the concepts required to supervise a construction crew, maximize productivity and quality, and ensure a job gets done on time, on budget, and safely.

- Build supervisory skills.
- Understand the difference between leadership and management.
- Communicate effectively.
- Lead a work crew.
- Plan and schedule.
- Manage effective meetings.
- Understand the supervisor's role in safety and due diligence.
- Develop and motivate teams.
- Handle disagreements and problems.
- Address personal problems and performance issues.

### **COURSE 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 3 hours to do. 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.

**Q:** [Is there a timeline for course material even though it is self-led?](#)

**A:** This course is completely self-paced, and no timelines are enforced.





## RESPECTFUL AND INCLUSIVE WORKPLACE

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

**Instructor:** SASKATCHEWAN POLYTECHNIC VIA NETCO

### **ONLINE – SELF PACED/SELF LED**

This course is offered through our partnership with NETCO.

The Canadian construction and maintenance industry is committed to building respectful and inclusive workplaces. Our goal is to enhance your toolkit of career enhancing skills and equip you with the success required to create a respectful and inclusive workplace. This workplace environment will benefit all parties based on the elimination of discrimination and harassment, constructive communication, teamwork, and mentorship. This course uses interactive elements, scenarios, videos, and quizzes to reinforce learning.

### **Successful completion of course requirements will provide:**

- Knowledge of industry wide expectations
- Leading by example
- Effective communication amongst team members with varying lifestyles and experiences
- Inclusive and respectful workplaces for all team members
- Inclusive decision making and problem-solving techniques.
- Mentorlike relationships amongst team members with varying lifestyles and experiences

### **Structure and Workload:**

This course consists of 8 lessons, with an estimated total duration of 3 hours of self-paced instruction.

### **COURSE 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 3 hours to do. 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.

**Q:** Is there a timeline for course material even though it is self-led?

**A:** This course is completely self-paced, and no timelines are enforced.



## SUBSTATION TRAINING- PILOT PROGRAM

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

**Instructor:** Steve Larson

**ON-LINE**

**Date:** May 20-21, 2025

Tuesday- Wednesday

Time: 6:00pm- 9:30pm

2 session/7 hours total

**Location:** VIA ZOOM

The EJTC is piloting a comprehensive Substation Electrician Training program designed to equip participants with in-depth knowledge and practical skills for safe and effective substation operations. The curriculum includes seven key modules covering a wide range of topics, such as the purpose and configurations of substations, hazard identification, and safe working practices. Participants will gain expertise in critical areas, including ground grid design and testing, operation and maintenance of switches, circuit breakers, and transformers, as well as the design and upkeep of substation DC systems. This training also emphasizes hands-on learning, safety protocols, and industry standards, ensuring a well-rounded education for professionals in the electrical field.