

# SUMMER 2019 TRAINING COURSES

Registration Opens May 21

<http://lu353.com/OnlineReg.html>



## EVITP

*Prerequisite – Journey person Electrician.*

**\*\*NOTE: Please include a copy of your current 309A license and/or OCOT card with your registration\*\***

The Electrical Vehicle Infrastructure Training Program (EVITP) – Phase I is the first level of training for the installation and maintenance of plug-in hybrid electric vehicle (PHEV) and electric vehicle (EV) infrastructure.

This course will cover will cover the detailed concepts required for the proper installation and maintenance of the infrastructure including:

- Automobile manufacturers charging performance integrity specifications
- EV battery types, specifications, and charging characteristics
- Charging station fundamentals including brand/model-specific installation for both Level 1 and Level 2 charging stations
- Service level assessments and upgrade implementation
- Canadian Electrical Code (CEC) standards and requirements, and
- First responder safety and fire hazard measures.

At the end of the course there is an industry exam available. The student will be required to pay an additional fee in order to sit the exam. Upon successful completion of the course and passing the exam, student will receive a certificate from EVITP.

**Course No:** EVITP 2/19  
**Start Date:** Monday June 10, 2019  
**Time:** 6:30pm – 9:30pm  
**Sessions:** 10  
**Location:** Toronto Training Centre

*\*\*Runs Monday & Wednesday nights – ends July 15\*\**

## Fibre Optics – Level I

In this updated program, students will learn about the world of Fibre Optics including:

- The basics of light transmission
- Safe handling procedures
- How to install connectors
- The basics of testing fibre cables

Students will also be preparing and terminating a variety of fibre connectors from top tier manufacturers. Connector styles include ST, SC, and LC used in current installations.

LSER Optimized fibre and its unique performance properties is also covered in this program. Also discussed is the important *how's* and *why's* of preparing a light budget.

When completed, the students will be able to actually apply their newly learned skills on the job.

**Course No:** FOI 2/19  
**Start Date:** Monday June 10, 2019  
**Time:** 6:30pm - 9:30pm  
**Sessions:** 12  
**Location:** Toronto Training Centre

*\*\*Runs Monday & Wednesday nights – ends July 22\*\**

## Electrical Estimating – Introduction

This course is ideal for electricians with a desire to learn the basics of producing electrical construction estimates. The course will take the students from an overview of electrical estimating to performing actual estimates. The focus is on practical information rather than a textbook. This course is designed for the service-small jobbing environment and will offer an approach to material take-off including appropriate order and types of forms available.

Topics such as where to start, material, pricing, recapping and quotations are also covered.

**Course No:** IEE 2/19  
**Start Date:** Tuesday June 11, 2019  
**Time:** 6:30pm – 9:30pm  
**Sessions:** 12  
**Location:** Oshawa Training Centre  
*\*\*Runs Tuesday & Thursday nights – ends July 18*

## Fire Alarm – Level I

**Prerequisite - Third term Apprentice with successful completion of intermediate trade school.**

This course is designed to develop your fire alarm knowledge and practice with basic fire alarm components and their function in conventional electro/mechanical systems. You will design complete systems with layout, schematic and riser diagrams from basic systems for a commercial complex – complete with related hydro, ULC and building codes that are based on CAN/ULC-S524 “Standard for Installation of Fire Alarm Systems.” This program is an introduction to the fire alarm industry, classes of wiring, codes, and installation of conventional fire alarm panels and devices.

**Course No:** FAI 4/18  
**Start Date:** Tuesday June 11, 2019  
**Time:** 6:30pm - 9:30pm  
**Sessions:** 12  
**Location:** Oshawa Training Centre  
*\*\*Runs Tuesday & Thursday nights – ends July 19\*\**

## Fire Alarm Certificate Renewal

**Prerequisite – Successful completion of Fire Alarm Level 4 or Certificate Renewal and current CERTI-FIRE license holder.**

Under the agreement with the Ontario Fire Marshall’s Office, Fire Alarm Certificates must be renewed every five (5) years. This program reviews the requirements of the ULC standards, the Ontario Building Codes, OHESC and the Ontario Fire Code – with the emphasis on changes to the codes and installation methods and technology. Students will receive updated code information and upon successful completion, have their certification renewed for five (5) years.

**Course No:** FAREN 3/19  
**Start Date:** Monday June 10, 2019  
**Time:** 6:30pm - 9:30pm  
**Sessions:** 12  
**Location:** Oshawa Training Centre  
*\*\*Runs Monday & Wednesday nights – ends July 22\*\**

## Network Cabling – Part I

**Prerequisite – Minimum first term Apprentice or Journeyman Electrician and member working under the communication section of the collective agreement. Good colour distinction skill is crucial.**

This course has a significant hands-on component where students construct an industry standard structured cabling system and also have the opportunity to test every aspect of their installation. Learn all the critical details of installing category 5e cable and the correct termination procedures of high performance connectors. Each student will be assembling their own structured cabling system consisting of Belden, CommScope (Systimax) products and other vendors’ products popular in the marketplace. The student will gain an understanding of all aspects of cable testing procedures by using state-of-the-art testing equipment.

Questions addressed in this course:

- Are T568B terminations better than T568A?
- What is a binder group?
- What is the difference between split pairs and crossed pairs?
- What is the maximum pull tension of a 4-pair cable?

**Course No:** CC1 2/19  
**Start Date:** Tuesday June 11, 2019  
**Time:** 6:30pm - 9:30pm  
**Sessions:** 12  
**Location:** Oshawa Training Centre  
*\*\*Runs Tuesday & Thursday nights – ends July 19\*\**

## Conduit Fabrication – Level I

*Prerequisite – Minimum first term Apprentice.*

This introductory course was designed to provide members with an overview of EMT conduit bending procedures. It is intended for members who have minimal or no conduit bending skills. The focus of this course is to provide members with a hands-on opportunity to practice conduit bending using hand benders.

**Course No:** CFI 4/18  
**Start Date:** Monday June 10, 2019  
**Time:** 6:30pm – 9:30pm  
**Sessions:** 10  
**Location:** Mississauga Training Centre  
*\*\*Runs Monday & Wednesday nights – ends July 15\*\**

## Building Automation Systems – HVAC

The objective of this course is to provide students with hand-on experience wiring building automation systems. This course will cover reading and interpreting shop drawings and applying that knowledge to wiring a simulated air handling system in the shop. In the shop, students will wire temperature, humidity and pressure sensors, as well as heating, chilled water control valves and dampers. The class will wire variable frequency drives that will be controlled via BACnet communication protocol.

When the projects are wired, the class will be involved with troubleshooting the wiring through a web-based browser. The projects will then be commissioned by the students verifying that the wiring, programming and graphics meet the requirements of the provided shop drawings.

**Course No:** BAS-H 2/10  
**Start Date:** Tuesday June 11, 2019  
**Time:** 6:30pm – 9:30pm  
**Sessions:** 10  
**Location:** Mississauga Training Centre  
*\*\*Runs Tuesday and Thursday nights – ends July 16\*\**



**OPEN HOUSE**  
BBQ and Training Partner Displays

PRESENTED BY  
**IBEW LOCAL 353**  
EDUCATION AND TRAINING

**WEDNESDAY JUNE 5, 2019**

3:00PM -- 7:30PM  
TORONTO TRAINING CENTRE  
1377 LAWRENCE AVE. E.  
TORONTO, ON M3A 3P8  
KATHERINEH@IBEW353.ORG



**FOR IBEW LOCAL 353 MEMBERS ONLY**

## CSTT Installer Program

This course will cover cut, strip, terminate and test structured wiring cables with a focus on correct preparation, termination and installation guidelines of audio/video, telecom/voice, and network/data cables. Everything you need to know for basic testing and troubleshooting of coax and twisted pair cables is covered in the test portion of the program.

**Course A:** CSTT 3/19  
**Start Date:** Tuesday June 11 AND Tuesday June 18  
**Time:** 6:30pm - 9:30pm  
**Location:** Mississauga Training Centre

**Course B:** CSTT 4/19  
**Start Date:** Tuesday June 25 AND Tuesday July 2  
**Time:** 6:30pm - 9:30pm  
**Location:** Barrie Training Centre

**Course C:** CSTT 5/19  
**Start Date:** Monday July 8 AND Monday July 15  
**Time:** 6:30pm - 9:30pm  
**Location:** Oshawa Training Centre

**Course D:** CSTT 6/19  
**Start Date:** Thursday July 18 AND Thursday July 25  
**Time:** 6:30pm - 9:30pm  
**Location:** Toronto Training Centre

✂-----

## SUMMER 2019 TRAINING COURSES

\*REGISTRATION OPENS – TUESDAY MAY 21, 2019 at 7:30am\*



**Name:** \_\_\_\_\_  
Last First

**Home Address:** \_\_\_\_\_

City Postal Code

**Phone No:** \_\_\_\_\_ **Cell No:** \_\_\_\_\_

**Email:** \_\_\_\_\_ **Card No:** \_\_\_\_\_

**Classification:**  Journeyperson  Apprentice Term \_\_\_\_\_  
 Communication  Other \_\_\_\_\_

**C of Q or OCOT#** \_\_\_\_\_ **JAC Ref #:** \_\_\_\_\_

PREFERRED COURSE			
<b>Course Name:</b>			
<b>Course No:</b>		<b>Start Date:</b>	
ALTERNATE COURSE			
<b>Course Name:</b>			
<b>Course No:</b>	<b>Start Date:</b>	<b>Start Date:</b>	