

# ONTARIO ELECTRICAL SAFETY CODE

27<sup>TH</sup> EDITION | 2018



## Ontario Electrical Safety Code



January 27-28, 2020 Mississauga, ON

Our Ontario Electrical Safety Code training course will cover all the Ontario amendments made to the 2018 Ontario electrical safety code, adopted recently in 2019. In fact, the course is intended to do a lot more than instruct about what changes have taken place since the last Ontario Electrical Safety Code.

Make sure you are up to date on the many changes to the latest Electrical Code!

### BONUS FEATURES

- 100+Page Electrical Safety Handbook
- An **Electricity Forum Coupon** to be used against any future Electricity Forum Course
- 1.4 CEU credits issued by the Engineering Institute of Canada
- Forum Presentations in Paper Format

The following price for this Electrical Code Training course DOES NOT INCLUDE A COPY OF THE ELECTRICAL CODE. Copies of the Electrical Code can be purchased separately from Canadian Standards Association. This course includes lunch.

2-DAY COURSE  
**\$799**

RECOGNIZED BY



EARN CONTINUING  
EDUCATION UNITS (CEUS)

**complete course details:**

[www.electricityforum.com/electrical-training/ontario-electrical-safety-code-training](http://www.electricityforum.com/electrical-training/ontario-electrical-safety-code-training)

# ONTARIO ELECTRICAL SAFETY CODE

The 2018 edition of the Ontario Electrical Safety Code – which includes the Canadian Electrical Code Part 1 plus several Ontario-specific amendments – reflects changes in technology and the marketplace, and incorporates feedback from stakeholders, technical reviews and new safety insights. The new edition includes changes designed to enhance electrical safety and protect workers and the public including:

Re-Write Of Section 10 Requirements For Bonding And Grounding Have Been Reorganized And Reduced In Size With Some Changes That Will Improve Safety And Simplify The Installations;

This course, conducted by one of Canada's leading experts on the Ontario Electrical Safety Code, will help electrical professionals on the effective application through an improved understanding of the intent of the rules. Also, our course will instruct electrical professionals on how to access and navigate through the Ontario Electrical Safety Code in a cost-efficient manner. The Canadian Electrical Code is the basis for all provincial and territorial electrical codes in Canada, including the 2018 Ontario Electrical Safety Code. Most provinces adopt the code, without changes, while other provinces, like Ontario, add their own amendments. In the specific case of Ontario, there are many amendments that you need to know.

Designed and delivered by Larry Cantelo, one of Canada's leading experts on Ontario Electrical Safety Code and Canadian Electrical Code interpretation, the course will instruct not only on the latest code changes, but how to understand what the rules are and how to access the code with ease. Some people spend endless time searching for the rules that they need. This course will teach what you need to know, quickly and accurately. Our instructor will

demonstrate how to find the answers you need in a few easy steps.

You won't want to miss this learning opportunity!!

## It's a Proven Fact:

Electrical Engineering, Design, Maintenance and Construction professionals who understand the most current Canadian Electrical Code requirements will:

- Work More Safely And Provide A Greater Degree Of Electrical Protection For Electrical Systems
- Work More Productively. Make More Money, Save Their Clients' Money
- Prevent System Incompatibilities From Holding Up A Job
- Experience A Higher Rate Of Passing Electrical Inspection

This interactive 2-Day Ontario Electrical Safety Code training course will instruct industrial, commercial and institutional electrical professionals and electrical professionals on:

1. Understanding the most recent changes to the Ontario Electrical Safety Code and individual provincial amendments.
2. Code Interpretation: How to most effectively interpret the Ontario Electrical Safety Code in order to properly comply.
3. How to navigate and access the Ontario Electrical Safety Code Rules accurately and time-effectively.

## AGENDA - DAY 1

**8:00 AM**

### **WELCOME AND INTRODUCTION TO THE CODE**

#### **ELECTRICAL CODE OVERVIEW**

- **ORGANIZATION OF THE ONTARIO ELECTRICAL SAFETY CODE**
- **CRITICAL RELATED STANDARDS**
- **EQUIPMENT APPROVAL REQUIREMENTS**

#### **CONDUCTORS**

- **WIRE AND CABLE – SPECIFICATIONS AND CONDITIONS OF USE**
- **CONDUCTOR SIZES, AMPACITIES AND TEMPERATURE RATINGS**
- **FLAME SPREAD RATINGS**
- **PARALLEL CONDUCTORS**

- **UNDERGROUND CONDUCTORS**

- **SHEATH CURRENTS AND EDDY CURRENTS**
- **HIGH VOLTAGE CONDUCTORS**

#### **GROUNDING AND BONDING**

- **VIDEO – TAKE ELECTRICITY SERIOUSLY**
- **ELECTRICAL SYSTEM GROUNDING**
- **ELECTRICAL EQUIPMENT BONDING**
- **BONDING OTHER SYSTEMS**
- **SINGLE POINT BONDING**
- **GROUNDING AND BONDING METHODS**
- **HIGH VOLTAGE GROUNDING, GROUND POTENTIAL RISE, STEP AND TOUCH VOLTAGES**

**complete course details:**

**[www.electricityforum.com/electrical-training/cec-training](http://www.electricityforum.com/electrical-training/cec-training)**

## PROTECTION AND CONTROL

- GROUNDING AND BONDING
- OVERLOAD AND OVERCURRENT PROTECTION
- GROUND FAULT PROTECTION

- SERIES RATED ELECTRICAL EQUIPMENT
- FUSE AND CIRCUIT-BREAKER APPLICATIONS
- SWITCHING AND DISCONNECTION

## AGENDA - DAY 2

### FIRE ALARM SYSTEMS AND FIRE PUMPS

- CONDUCTORS
- OVERCURRENT PROTECTION

### ELECTRIC MOTORS

- SERVICE DUTY
- OVERCURRENT AND OVERLOAD PROTECTION
- CONDUCTOR RATINGS, SERVICE, FEEDERS AND BRANCH CIRCUITS
- GROUPED MOTOR PROTECTION
- MOTOR DISCONNECTION
- MOTOR CONTROLS
- POWER FACTOR CORRECTION CAPACITORS

### HIGH VOLTAGE SUBSTATIONS AND LINES

- ELECTRICAL SYSTEM FAULT LEVELS
- BIL AND LIGHTNING PROTECTION
- TRANSFORMER AND SWITCHGEAR ROOMS
- SPRINKLERED EQUIPMENT
- OVERCURRENT PROTECTION
- LIGHTNING PROTECTION
- CLEARANCE – SUBSTATIONS AND LINES
- LIQUID-FILLED EQUIPMENT

### HAZARDOUS LOCATIONS

- CLASS I – FLAMMABLE AND EXPLOSIVE GASES AND VAPOURS

- CLASS II – COMBUSTIBLE AND CONDUCTIVE DUSTS
- CLASS III – IGNITABLE FIBRES AND FLYINGS
- AREA CLASSIFICATIONS, DIVISIONS AND GROUPS
- HAZARDOUS LOCATIONS – WIRING AND EQUIPMENT
- SEALING METHODS
- INTRINSICALLY SAFE AND NON-INCENDIVE CIRCUITS
- PURGED ELECTRICAL SYSTEMS

### EMERGENCY POWER SUPPLY

- EMERGENCY POWER SUPPLY, UNIT EQUIPMENT, EXIT SIGNS AND UNIT EQUIPMENT
- WIRING AND OVERCURRENT PROTECTION
- EMERGENCY POWER SUPPLIES
- EMERGENCY LIGHTING
- EXIT SIGNS
- GROUNDING AND BONDING

### Questions and answers

### TUTORIAL TIMETABLE:

Start: 8:00 a.m.  
Coffee Break: 10:00 a.m.  
Lunch: 12:00 noon (included with course)  
Restart: 1:15 p.m.  
Finish: 4:30 p.m.

***“Our motivation is your education.”***



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**ON-LINE:**

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**MAIL:**

The Electricity Forum  
1885 Clements Rd., Unit 218  
Pickering, ON L1W 3V4



**REGISTER 3 DELEGATES  
AT FULL PRICE  
AND GET THE 4th REGISTRATION FREE!**

**WHEN & WHERE**

**Mississauga, ON - January 27-28, 2020**

Hampton Inn And Suites Toronto Airport

3279 Caroga Drive, Mississauga, ON

Tel: 905-671-4730

**ATTENDEE INFORMATION**

To receive registration fee discounts, you must **REGISTER AND PREPAY** prior to the course date.

**NAME** \_\_\_\_\_

**TITLE** \_\_\_\_\_

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The following price for this Electrical Code Training course DOES NOT INCLUDE A COPY OF THE ELECTRICAL CODE. Copies of the Electrical Code can be purchased separately from Canadian Standards Association and brought to the course. This course includes lunch. Price: Our Electrical Code Training course is priced at \$799.00 + GST/HST.

**CANCELLATION AND REFUND POLICY**

Registration fees are refundable only upon receipt of written notification 10 days prior to the conference date, less a 10 per cent service charge. Substitution of participants is permissible.

The Electricity Forum reserves the right to cancel any conference it deems necessary and will, in such event, make a full refund of the registration fees.

**INTERESTED IN ON-SITE ELECTRICAL CODE TRAINING?****Cost Effective On-Site Electrical Training**

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