

LOOK  
INSIDE FOR  
DISCOUNT  
PROGRAM PRICING

# CANADA'S 2015 ELECTRICAL CODE



February 12-13, 2015 - Richmond, BC  
February 17-18, 2015 - Calgary, AB  
February 19-20, 2015 - Edmonton, AB

March 2-3, 2015 - St. John's, NL  
March 5-6, 2015 - Moncton, NB  
March 10-11, 2015 - Ottawa, ON  
March 12-13, 2015 - Toronto, ON

April 20-21, 2015 - Winnipeg, MB  
April 22-23, 2015 - Saskatoon, SK

## Gain Insight Into Canada's 2015 Electrical Code

### BONUS FEATURES

- A FREE Electricity Forum 120-page Electrical Safety Handbook (Value \$20.00)
  - An Electricity Forum Coupon (Value \$100) to be used against any future 2015 Electricity Forum event (restrictions apply)
  - 1.4 CEU credits issued by the Engineering Institute of Canada.
  - Forum Presentations in Paper Format
- NOTE: Price Does Not Include CEC. Student MUST bring their own Electrical Code book to the course. Copies can be purchased directly from Canadian Standards Association.)

2-DAY COURSE

**\$699**

PRICE DOES NOT INCLUDE A  
2015 CANADIAN ELECTRICAL  
CODE BOOK

RECOGNIZED BY



EARN CONTINUING  
EDUCATION UNITS (CEUS)

complete course details: [www.electricityforum.com/forums/cec-training.html](http://www.electricityforum.com/forums/cec-training.html)

## ONTARIO ELECTRICAL SAFETY CODE TRAINING

Our Electrical Code training course is intended to do a lot more than instruct about what changes have taken place since the last Electrical Code. These courses, conducted by one of Canada's leading experts on Canada's national Electrical 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 Electrical Code in a cost-efficient manner.

The Canadian Electrical Code is the basis for all provincial and territorial electrical codes in Canada, including the 2015 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 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.

This course is designed to be an interactive, problem solving, learning environment for delegates of all disciplines. The positive outcome of this training is to improve the quality of installations and to pass electrical inspection with fewer deficiencies. It means working more efficiently and productively, saving time, energy, and money.

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

### AGENDA - DAY 1

#### Welcome and introduction to the code

- Electrical code overview
- Organization of the Code
- Critical related standards
- Equipment approval requirements

#### Objectives and Scope

- Objectives of the Code
- Exemptions

#### Conductors

- Termination temperatures
- 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

#### Circuit Loading and Demand Factors

- Intermittent loads
- Continuous loads
- 80% and 100% rated circuit breakers

- Car-plug panel feeder calculations

#### Residential Calculations

- Single dwelling service calculations
- Apartment feeder calculations
- Branch circuit calculations

#### Grounding and Bonding

- What is Grounding and bonding?
- Electrical system grounding
- Service equipment grounding
- Electrical equipment bonding
- Bonding other systems
- Grounding and bonding methods
- High voltage grounding, ground potential rise, step and touch voltages

#### Protection and Control

- Interrupting rating (IR) of overcurrent devices
- Tap conductor requirements
- Ground fault protection
- Series rated electrical equipment
- Fuse and circuit-breaker applications
- Switching and disconnection

### COURSE TIMETABLE

#### BOTH DAYS

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.

COURSE INSTRUCTOR  
LARRY CANTELO, PEC, SCO

### Fire Alarm Systems and Fire Pumps

- Conductors
- Overcurrent protection

### Hazardous Locations

- Overview of major revisions to Section 18
- Area classifications, zones, divisions and groups
- Hazardous locations – wiring and equipment
- Sealing
- Intrinsically safe and non-incendive circuits
- Purged electrical systems

### Installation of Electrical Equipment

- Capacitors and capacitor banks
- Transformers
- Panelboards

### Electric Motors

- Service factor
- Overcurrent and overload protection
- Conductor ratings, service, feeders and branch circuits
- Grouped motor protection
- Motor disconnection
- Motor controls
- Power factor correction capacitors

### Fire Alarm Systems and Fire Pumps

- Fire alarm systems
- Smoke and CO alarms in dwellings
- Fire pumps

### High Voltage Substations and Lines

- Electrical system fault levels
- Lightning protection
- Transformer and switchgear rooms
- Sprinklered equipment
- Overcurrent protection
- Lightning protection
- Clearance – substations and lines
- Liquid-filled equipment

### Emergency Power Supply

- Wiring and overcurrent protection
- Emergency power supply, unit equipment, exit signs and unit equipment
- Wiring and overcurrent protection
- Emergency power supplies
- Emergency lighting
- Exit signs
- Unit equipment

### Questions and answers

ON-SITE TRAINING  
AVAILABLE  
**FREE**  
QUOTATION

Why not request a **FREE** Electrical Code On-Site Training Course quotation directly for your company?? <http://www.electricityforum.com/On-Site-Training-Requests/>

Our on-site training courses are tailored to meet your company's specific requirements and conducted on your own premises for your employees.

Save the cost of travel and hotels and save on our regular public enrollment registration fees. Plus, our instructors can work with you in advance to determine the level of electrical training and experience of your employees and the specific applications that you would like covered.

Electrical on-site training courses are best because they are delivered using the equipment your electrical technicians use every day. This maximizes the educational value of your electrical training investment. For more information, contact:

Randy Hurst,  
President,  
The Electricity Forum  
[randy@electricityforum.com](mailto:randy@electricityforum.com)

## WHO SHOULD ATTEND

We have created a unique course, designed for all levels of electrical professionals by one of Canada's leading experts in industrial, commercial, institutional and residential electrical installations, as well as the business of conducting electrical inspections.

CANADIAN  
ELECTRICITY  
FORUM  
TRAINING  
INSTITUTE

Download Our **FREE** 60-Page  
On-Site Electrical Training Catalogue  
**TODAY!**



[www.electricityforum.com/catalog/](http://www.electricityforum.com/catalog/)



***"Our motivation is your education."***



**(905) 686-1040**



**(905) 686-1078**



**ON-LINE:**

[www.electricityforum.com/  
forums/cec-training.html](http://www.electricityforum.com/forums/cec-training.html)



**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

**Richmond, BC - February 12-13, 2015**

Holiday Inn Vancouver Airport  
10720 Cambie Rd.  
Tel: 604-821-1818

**Calgary, AB - February 17-18, 2015**

Holiday Inn Calgary Airport  
1250 McKinnon Dr. NE; Calgary, AB  
Tel: 403-230-1999

**Edmonton, AB - February 19-20, 2015**

Radisson Hotel Edmonton South  
4440 Gateway Boulevard N., Edmonton  
Tel: 780-437-6010

**St. John's, NL - March 2-3, 2015**

Hampton Inn & Suites  
411 Stavanger Drive  
Tel: 709-738-4888

**Moncton, NB - March 5-6, 2015**

Fairfield Inn and Suites  
402 Queen St  
Tel: 506-855-0033

**Ottawa, ON - March 10-11, 2015**

Radisson Ottawa Parliament Hill  
26 Marriott Dr  
Tel: 613-236-1133

**Toronto, ON - March 12-13, 2015**

Hampton Inn and Suites Toronto Airport Hotel  
3279 Caroga Drive, Mississauga, ON  
905-672-4820

**Winnipeg, MB - April 20-21, 2015**

Four Points by Sheraton Winnipeg International Airport  
1999 Wellington Avenue  
Tel: 204-775-5222

**Saskatoon, SK - April 22-23, 2015**

Sandman Hotel Saskatoon  
310 Circle Drive W.  
Tel: 306-477-4844

## ATTENDEE INFORMATION

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

NAME \_\_\_\_\_

TITLE \_\_\_\_\_

COMPANY \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_

PROVINCE \_\_\_\_\_

POSTAL CODE \_\_\_\_\_

E-MAIL \_\_\_\_\_

TEL ( ) \_\_\_\_\_

FAX ( ) \_\_\_\_\_

## METHOD OF PAYMENT

☐ Bill My Credit Card

☐ AMEX ☐ VISA ☐ MasterCard

Card # \_\_\_\_\_

Exp. Date \_\_\_\_\_

Signature \_\_\_\_\_

Card Holders Name \_\_\_\_\_

## REGISTRATION FEES

The price for registering for our two-day Electrical Code training is \$699 (plus Tax):

The fee also includes course presentation materials, Electrical Safety Handbook in electronic format, CEU Credit, refreshments. Lunch Is Included.

■ **NOTE:** Price Does Not Include CEC. Students **MUST** bring their own 2015 Electrical Code book to the course. Copies can be purchased directly from Canadian Standards Association at <http://shop.csa.ca/>