

CANADA'S 2015 ELECTRICAL CODE

LOOK
INSIDE FOR
DISCOUNT
PROGRAM PRICING



Sept 8-9, 2015 - Victoria, BC

Sept 10-11, 2015 - Richmond, BC

October 5-6, 2015 - Edmonton, AB

October 7-8, 2015 - Calgary, AB

October 13-14, 2015 - Winnipeg, MB

October 15-16, 2015 - Toronto, ON

October 22-23, 2015 - Halifax, NS

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

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

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

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www.electricityforum.com/catalog/

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For more information, contact:
Randy Hurst,
President,
The Electricity Forum
randy@electricityforum.com





(905) 686-1040



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ON-LINE:

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

Victoria, BC - September 8-9, 2015
Hotel T.B.A.

Richmond, BC - September 10-11, 2015
Holiday Inn Vancouver Airport
10720 Cambie Rd.
Tel: 604-821-1818

Edmonton, AB - October 5-6, 2015
Radisson Hotel Edmonton South
4440 Gateway Boulevard N., Edmonton
Tel: 780-437-6010

Calgary, AB - October 7-8, 2015
Holiday Inn Calgary Airport
1250 McKinnon Dr. NE; Calgary, AB
Tel: 403-230-1999

Winnipeg, MB - October 13-14, 2015
Four Points by Sheraton Winnipeg International Airport
1999 Wellington Avenue
Tel: 204-775-5222

Toronto, ON - October 15-16, 2015
Hampton Inn and Suites Toronto Airport Hotel
3279 Caroga Drive, Mississauga, ON
905-672-4820

Halifax, NS - October 22-23, 2015
Hotel T.B.A.

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 _____

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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/>**