

CANADA'S 2018 ELECTRICAL CODE



March 12-13, 2018	Saskatoon, SK
March 14-15, 2018	Winnipeg, MB
June 5-6, 2018	Richmond, BC
June 7-8, 2018	Edmonton, AB
June 11-12, 2018	Calgary, AB
June 14-15, 2018	Toronto, ON
June 18-19, 2018	St. John's, NL

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 2018 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

\$699

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EARN CONTINUING
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complete course details:

www.electricityforum.com/electrical-training/cec-training

CANADA'S 2018 ELECTRICAL CODE

Electrical Code training is intended to do a lot more than instruct about what changes have taken place since the last time Canada issued a National Electrical Code. We are producing a series of courses across Canada by one of Canada's leading experts on Canada's Electrical Code to 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 Canada's Electrical Code in a cost-efficient manner.

Canada's Electrical Code is the basis for all provincial and territorial electrical codes across Canada. Most provinces adopt the Code, without changes, while other provinces add their own amendments. You need to know both the national and specific provincial code differences.

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.

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 will find the answers easily and correctly with our training system.

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 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 Course will instruct industrial, commercial and institutional electrical professionals and electrical professionals on:

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

This course is designed to be an interactive, problem-solving, learning environment for delegates of all disciplines. Instructor-led calculations will determine minimum conductor sizes and maximum overcurrent ampacities for various loads as well as maximum overload settings for AC motors. Participants are encouraged to bring a calculator to the seminar in order to actively participate in the exercises

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.

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

FIRE ALARM SYSTEMS AND FIRE PUMPS

- Conductors
- Overcurrent protection

AGENDA - DAY 2

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

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

“Our motivation is your education.”



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**ON-LINE:**

www.electricityforum.com/electrical-training/cec-training

**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**Saskatoon, SK - March 12-13, 2018**

Sandman Airport Hotel
310 Circle Drive
Tel: 306-477-4844

Winnipeg, MB - March 14-15, 2018

Holiday Inn Winnipeg Airport Polo Park
1740 Ellice Ave
Tel: 204-775-5055

Richmond, BC - June 5-6, 2018

Sandman Signature Vancouver Hotel & Resort
10251 Edwards Drive
Tel: 604-278-9611

Edmonton, AB - June 7-8, 2018

Sawridge Inn Edmonton South
4235 Gateway Blvd NW
Tel: 780 438-1222

Toronto, ON - June 14-15, 2018

Hampton Inn and Suites Toronto Airport Hotel
3279 Caroga Drive, Mississauga
Tel: 905-671-4730

Calgary, AB - June 11-12, 2018

Holiday Inn Calgary Airport
1250 McKinnon Drive
Tel: 403-230-1999

St. John's, NL - June 18-19, 2018

Comfort Inn St. John's Airport
106 Airport Road
Tel: 709-726-3408

ATTENDEE INFORMATION

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

NAME _____

TITLE _____

COMPANY _____

ADDRESS _____

CITY _____

PROVINCE _____

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METHOD OF PAYMENT

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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 \$699.00 + 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**

Save the cost of travel and hotels AND save on our regular public enrollment registration fees. For more information, contact Randy Hurst, President, The Electricity Forum 1-855-824-6131. You can write to randy@electricityforum.com or you can go to our on-site electrical training quotation page and ask for a FREE quotation: www.electricityforum.com/onsite-requestforquote