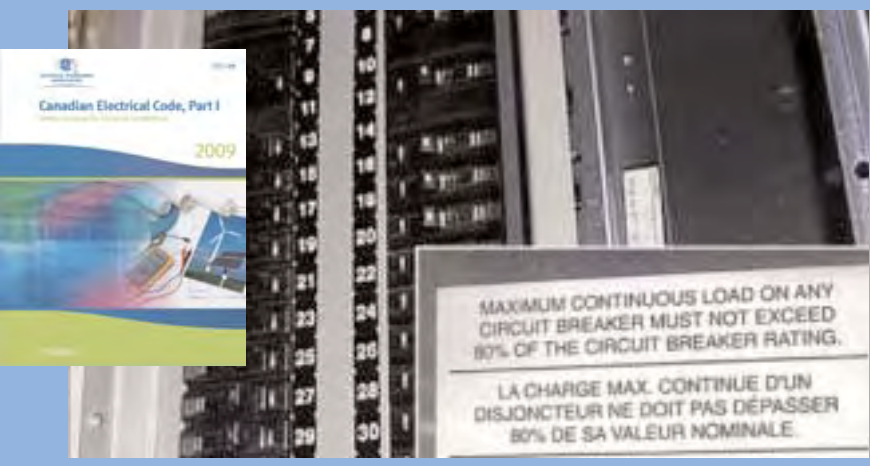


# 2009 Canadian Electrical Code Training

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

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



- TORONTO, ON - October 19-20, 2009**
- VANCOUVER, BC - October 27-28, 2009**
- EDMONTON, AB - October 29-30, 2009**
- SASKATOON, SK - November 2-3, 2009**
- WINNIPEG, MB - November 4-5, 2009**
- ST. JOHN'S, NL - November 12-13, 2009**

## It's a Proven Fact:

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

- Work more safely and provide a greater degree of 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

**2-day course**  
**\$599\***

This interactive 2-Day Course will instruct industrial, commercial and institutional electrical professionals on:

1. Rule Changes: Understanding changes to the 2009 Canadian Electrical Code.
2. Code Interpretation: How to most effectively interpret the 2009 Canadian Electrical Code.
3. How to navigate and access the CEC Rules accurately and time-effectively.



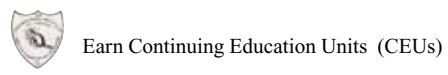
This course is designed to be an interactive, problem-solving, learning environment for delegates of all disciplines.

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.

In addition, we have set aside time in our program for discussion and feedback. This will involve a session with local electrical inspectors from each province where the course is held.

- DELEGATES RECEIVE:**
- Our latest Electrical Safety and Arc Flash Handbook Volume 5 (Value \$35.00)
  - \$100 Coupon Toward any Future 2009 Electricity Forum Event (Restrictions Apply)
  - 1.4 Continuing Education Unit (CEU) Credits
  - FREE Magazine Subscription (Value \$50.00)
  - Forum Presentations in Paper Format
  - Register Three, Get One FREE (Details Page 4)

### CORPORATE SPONSORS



*More than 25,000 Satisfied Students*

# WHAT YOU NEED TO KNOW ABOUT THE CANADIAN ELECTRICAL CODE AND WHY YOU NEED TO ATTEND THIS COURSE

Canadian Electrical Code training is intended to do a lot more than instruct about what changes have taken place in the 2009 Canadian Electrical Code. We are producing a series of courses across Canada to instruct 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 Canadian Electrical Code in a cost-efficient manner.

The Canadian Electrical Code is the basis for all provincial and territorial electrical codes in 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 professions by one of Canada's leading experts in industrial, commercial, institutional and residential electrical installations, as well as the business of conducting electrical inspections.

Our expert 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 not only find the answers easily and correctly, you will understand them like an expert.

Also, we have invited local electrical inspectors to take part in the program and contribute to an interactive exchange with students about provincial electrical code issues, questions and clarifications.

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

## WHO SHOULD ATTEND

- Electricians
- Industrial, Commercial and Institutional Electrical Engineers
- Plant Supervisors
- Electrical and Electronic Technicians
- Consulting Electrical Engineers
- Industrial Electrical Maintenance Personnel
- Anyone involved in the design, installation, maintenance and inspection of electrical equipment in Canada

# 2009 Canadian Electrical Code 2-Day Course

To see the extended course outline please visit: [www.electricityforum.com/forums/cec-training.html](http://www.electricityforum.com/forums/cec-training.html)

## Day 1

*Jim Anderson, Code and Electrical Safety Consultant*

8:00 a.m.

### GENERAL RULES

#### SECTION 0: UNDERSTANDING THE REASON FOR THE CODE, TO WHOM IT APPLIES AND WHAT THE WORDS MEAN

#### SECTION 2: GENERAL RULES

- Powers of rejection
- Marking of equipment
- Protection of persons and property

#### TABLES

- What they are
- How they apply
- How to use them

#### APPENDIXES

- Which are mandatory and which are explanatory

#### DIAGRAMS

#### SECTION 10: GROUNDING AND BONDING

- Ground, Grounding and Bonding: each is different
- Grounding of AC systems
- Grounding electrodes
- Bonding and bonding conductors
- Bond loops, counterpoises and equi-potential connections

#### CONDUCTORS AND AMPACITY

- Types of wire and cable, underground, flexible cord & cables, armoured cable and equipment wire
- Applying the tables
- Proper protection
- Voltage drop
- Derating for temperature, cable tray, multiple conductors

#### CATEGORY 1 AND 2 LOCATIONS

- Corrosive liquids, vapours or excessive moisture
- Sealing and wiring for sewage and treatment plants

#### RECEPTACLES AND REQUIREMENTS

- Ground fault protection
- Types and configurations
- Residential
- Used for disconnecting means

## Day 2

### TRANSFORMERS

- Dry type and liquid type
- High voltage
- Protection and cable sizing
- Autotransformers
- Connections, wye, delta, tapped, open delta and edison delta

### MOTORS

- Conductor sizing, over current protection and duty cycle grounding

### HAZARDOUS LOCATIONS

- Area classification
- Class, group and zone
- Temperature relation to classification
- Sealing and conduit selection
- Intrinsically safe and nonincendive circuits
- Pressurization and ventilation
- Combustible gas detection

### LIGHTING

- Maximum over current protection
- Voltage selection, 120, 277, 347, 240, 480, 600
- Pole top lights and wiring

### HIGH VOLTAGE INSTALLATIONS

- Substation equipment, transformers and fencing
- Ground grids
- Step and touch potentials

### OTHER BUILDING SYSTEM REQUIREMENTS

- Fault currents and calculations
- Arc faults, protection and calculations
- Sunlight resistive requirements
- Pools, hot tubs & spas
- Fire pumps
- Exit and emergency lighting
- Electric heating and tracing

### FIRE ALARM

### AIRPORT INSTALLATIONS

### MARINAS WHARVES AND YACHT CLUBS

### INTERCONNECTION WITH UTILITY SYSTEMS

### CATHODIC PROTECTION

### OPTICAL FIBER CABLES

### SOLAR VOLTAIC SYSTEMS

# REGISTRATION

## Act Now! Limited Seating! Register Today!

### REGISTRATION FEES

The registration fee to attend the two-day 2009 Canadian Electrical Code course is \$599.00 + \$29.95 GST (or \$77.87 HST). The registration fee includes: course documentation, Electrical Safety and Arc Flash handbook Volume 5, magazine subscription, Electricity Forum \$100 coupon towards any future 2009 Electricity Forum event (Restrictions Apply), and refreshments. (GST #R105219976).  
\* Note - This course DOES NOT INCLUDE A 2009 CANADIAN ELECTRICAL CODE. Copies of the 2009 Canadian Electrical Code must be purchased separately from Canadian Standards Association and be brought to the course. This course does not include lunch.

# Save \$50



Register and prepay with credit card 14 days prior to course date and receive an early bird registration fee of \$549 + taxes for the two-day training.



**Register 3 Delegates At the Full Price of \$599 each, THE 4TH REGISTRATION IS FREE**

### WHEN AND WHERE

*(Please indicate where you want to attend the course)*

#### 2009 Canadian Electrical Code 2-day Course

- Toronto, ON - October 19-20, 2009**  
Crowne Plaza Toronto Airport Hotel, 33 Carlson Court, Tel: 416-675-1234
- Vancouver, BC - October 27-28, 2009**  
Best Western Abercorn Inn, Richmond, BC, 9260 Bridgeport Road, Tel: 604-270-7576
- Edmonton, AB - October 29-30, 2009**  
Radisson Hotel Edmonton South, 4440 Gateway Boulevard, Tel: 780-437-6010
- Saskatoon, SK - November 2-3, 2009**  
Radisson Hotel, 405 20th East, Tel: 306-665-3322
- Winnipeg, MB - November 4-5, 2009**  
Holiday In Winnipeg Airport West, 360 Colony Street, Tel: 204-772-1443
- St. John's, NL - November 12-13, 2009**  
Battery Hotel & Conference Centre, 100 Signal Hill Road, Tel: 709-576-0040

### ON-SITE TRAINING AVAILABLE

Why not request a FREE 2009 Canadian Electrical Code Training On-Site Training Course quotation directly for our company?? <http://www.electricityforum.com/on-site-training-feedback.htm> 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)

Ways to register



PHONE : (905) 686-1040



FAX: (905) 686-1078



MAIL:  
The Canadian  
Electricity Forum  
Unit 215, 1885 Clements Rd.  
Pickering, ON L1W 3V4



ON-LINE:

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

When redeeming a \$100 coupon from a previous course, you must **RESGISTER AND PREPAY** prior to the course date.

ATTENDEE INFORMATION	METHOD OF PAYMENT
Name _____	<input type="checkbox"/> Cheque enclosed *
Title _____	<input type="checkbox"/> Invoice me under PO#: _____
Company _____	<input type="checkbox"/> Send invoice attention: _____
Address _____	<input type="checkbox"/> Bill my credit card:
City _____ Province _____ Postal Code _____	<input type="checkbox"/> AMEX <input type="checkbox"/> VISA <input type="checkbox"/> MasterCard
E-mail _____	Card # _____
Tel:( ) _____ Fax:( ) _____	Exp. Date _____
	Signature _____
	Card Holder name _____ (if not registrant)

\* Payable to the Canadian Electricity Forum

**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 up to and including the day of the forum. The Canadian 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.