



Content
Community
Connection

United States
The Electricity Forum Inc.
742 Pre Emption Road
Geneva, NY 14456
Tel 289-387-1025

Canada
The Electricity Forum
1885 Clements Rd, Unit 218
Pickering, ON L1W3V4
Tel 905-686-1040
Fax 905-686-1078
Toll Free 855-824-6131

2024 CE Code - Changes and Fundamentals

[View Course Details](#)

COURSE DATES AND TIMES

2024 CE Code Training Overview

Participants will explore updates in wiring and cable applications, conduit and box fill, grounding and bonding, hazardous locations, and protection systems. This course emphasizes practical application through real-world scenarios and code search exercises, making it ideal for those looking to apply theoretical knowledge in their daily work.

The course is tailored to help professionals stay up to date with industry standards. By mastering the new CEC requirements, participants can ensure their electrical installations are safe, compliant, and efficient. Whether you are a seasoned electrical professional or a newcomer to the field, this course equips you with the tools and knowledge needed to navigate the latest changes effectively.

In addition to reviewing the technical changes in the CE Code, the course covers jurisdictional variations and the integration of new technologies. The curriculum is designed to be 70% experiential, enabling participants to engage in problem-solving exercises, hands-on applications, and real-world simulations, ensuring a deep and lasting understanding of the material.

Key Technical Updates Covered in the 2024 CE Code

The latest Canadian Electrical Code Part I introduces important revisions that strengthen installation practices and improve overall system safety. Several rules were revised to clarify bonding requirements, conductor sizing, and protection provisions for both permanent and temporary installations, ensuring that the safety standard is consistently applied across all facility types.

Participants will review significant changes to Section 18, which addresses energy storage and renewable energy systems, including updated rules for battery technologies, inverter connections, and rapid shutdown requirements. Updates to Section 36 refine high-voltage installation practices, including new guidance on high-voltage couplers, grounding methods, and equipment spacing. The course also examines modifications in Section 66, especially those affecting portable structures, mobile equipment, and field-assembled distribution units.

New and emerging technologies receive notable attention in this edition, including requirements for electric vehicle supply equipment, improved protection rules for ground-fault circuit interrupter applications, and revised allowances for metallic-jacketed cable in specific occupancies. Learners will also study the changes in Table 38, which adjusts conductor selection criteria and ampacity considerations for various wiring methods.

Together, these updates reflect a more comprehensive, modern approach to electrical system safety, helping professionals confidently apply the code in industrial, commercial, and residential environments.

Learning Outcomes

- Understand the structure and key updates in the 2024 CE Code.
- Apply new safety requirements for installations in industrial and hazardous environments.
- Perform accurate conductor sizing, load calculations, and grounding.
- Navigate and apply the Code effectively to real-world scenarios.

WHO SHOULD ATTEND

- Electricians (industrial, commercial, and residential)
- Electrical engineers, inspectors, and contractors
- Utility managers, maintenance professionals, and project managers
- Electrical apprentices and educators
- Professionals responsible for design, installation, and electrical system safety

STUDENTS RECEIVE

- 2024 CE Code Certificate of Course Completion
- .6 CEU credits issued by the Engineering Institute of Canada. (6 Professional Development Hours)
- An Electricity Forum Coupon (Value \$50) to be used against any future Electricity Forum event (restrictions apply)
- 100+Page Digital Electrical Safety Handbook (Value \$20)
- Course Materials in PDF Format

COURSE OUTLINE

2024 CE Code - Changes and Fundamentals Course Outline

1. Welcome and Introduction

- Overview of course objectives and the significance of the 2024 CE Code changes.
- Participant handout to share personal learning goals.

2. Review - Major Changes - 2024 CE Code

- Structure and organization of the CEC and key related standards.
- Highlight changes in 2024 – 26th edition of the CEC.
- Navigating the CEC to locate specific sections and standards.

3. Tools for Navigating the CEC

- Strategies for using the Code effectively.
- Hands-on Activity: Code navigation exercises

4. Wire and Cable Applications

- Understanding termination temperatures, ampacities, and wire/cable specifications.
- Conditions of use for various conductors and cables.
- Hands-on Activity: Wiring exercises and ampacity calculations.

5. Conduit Fill and Box Fill

- Code requirements for calculating conduit and box fill.
- Hands on Activity: Performing conduit and box fill calculations.

6. Hazardous Locations

- Classification systems for hazardous locations, including Zone and Class/Division.
- Identifying and classifying hazardous locations and selecting wiring methods.

7. Grounding and Bonding

- Review of system grounding, service equipment grounding, and bonding methods.

COURSE SCHEDULE

Start: 10 a.m. Eastern Time

Finish: 4:30 p.m. Eastern Time

Contact us Today for a FREE quotation to deliver this course at your company's location.

[Request Quote](#)