



Content
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2024 CE Code - Changes and Fundamentals

Course details: <https://electricityforum.com/electrical-training/2024-ce-code-changes-and-fundamentals>

COURSE DATES AND TIMES

October 18, 2024

10:00 am - 4:30 pm ET

November 22, 2024

10:00 am - 4:30 pm ET

Our 6-hour, one-day 2024 CE Code Changes and Fundamentals course is a comprehensive, instructor-led, training course designed to provide electrical professionals with a detailed understanding of the critical updates in the 2024 Canadian Electrical Code (CE Code). The course focuses on significant changes that impact safety, compliance, and installation practices in both residential, commercial and industrial settings.

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 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.

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

- Stay current with the latest CEC changes to enhance safety and compliance.
- Develop practical skills through immersive, hands-on learning.
- Ensure projects meet the most recent Code standards, avoiding non-compliance penalties.

COURSE OUTLINE

2024 CE Code - Changes and Fundamentals

Course Program Outline:

Welcome and Introduction

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

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.

Tools for Navigating the CEC

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

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.

Conduit Fill and Box Fill

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

Hazardous Locations

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

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.

<https://electricityforum.com/onsite-requestforquote>