

CHARTERED 
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CERTIFIED CANADA ELECTRICAL CODE AND COMPLIANCE MANAGER™

CCE™

**Fully Accredited
By:**

Chartered Institute of
Professional Certifications

CPD
Certification Service



PROGRAM OVERVIEW



Non-compliance with Canada's electrical safety regulations exposes companies to severe consequences, including fines, shutdowns, and criminal liability after serious incidents. Regulatory actions can follow fires, shocks, or equipment failures, driving up insurance costs and triggering costly retrofits and downtime. Beyond legal risk, companies face reputational damage and loss of contracts when investigations reveal ignored electrical hazards or uncertified equipment, making strict compliance a core business protection strategy.

This certified program provides an in-depth and practical understanding of the structure, intent, and application of the Canadian Electrical Code, with a strong focus on compliance, safety, and enforceability. You will examine key technical requirements covering **conductors and ampacity calculations, load calculations for services and feeders, grounding and bonding systems, overcurrent protection, wiring methods, motors, generators, and electrical equipment installations.** The program also addresses how the CEC is adopted and enforced at the provincial and territorial level, including **permitting, inspection processes, and the legal implications of non-compliance.**

Throughout the program, you will develop the skills to identify electrical compliance risks, interpret code requirements accurately, and apply them in real-world installation and inspection scenarios. You will gain practical insight into **working with Authorities Having Jurisdiction (AHJs), preparing for inspections, understanding testing standards, and managing corrective actions.** Emerging topics such as electric vehicle supply equipment (EVSE), renewable energy systems, and climate-resilient electrical design are integrated to reflect current industry and regulatory expectations. Real-world compliance scenarios and enforcement considerations ensure practical relevance for design, construction, operations, and safety roles.

Upon completion, you will earn the **Certified Canada Electrical Code and Compliance Manager (CCE™)** designation, an industry-recognized credential that demonstrates your competence in electrical code compliance, inspection readiness, and risk management. This certification affirms your ability to support safe, legally compliant, and resilient electrical systems across Canadian jurisdictions and positions you as a trusted professional in electrical safety and regulatory compliance.

ACCREDITATIONS



4.8




4.6



KEY SKILLS YOU WILL GAIN

From This Program



**CANADIAN ELECTRICAL CODE INTERPRETATION
CEC STRUCTURE AND NAVIGATION
CODE DEFINITIONS AND TERMINOLOGY
RULE CLASSIFICATION AND APPLICATION**

**ELECTRICAL SAFETY PRINCIPLES
AUTHORITIES HAVING JURISDICTION
COORDINATION
PROVINCIAL ELECTRICAL REGULATIONS
COMPLIANCE**

**CONDUCTOR SIZING CALCULATIONS
AMPACITY DETERMINATION
THERMAL EFFECTS ASSESSMENT
SERVICE INSTALLATION COMPLIANCE**

**ELECTRICAL LOAD CALCULATIONS
DEMAND FACTOR APPLICATION
GROUNDING SYSTEM DESIGN
BONDING METHODS APPLICATION
FAULT PROTECTION STRATEGIES**

**ELECTRICAL EQUIPMENT INSTALLATION
COMPLIANCE**

YOUR FACULTY DIRECTOR



Prof. Karen Shakespeare Kokkelink, MSE, P.Eng, CEM

Highly Distinguished Electrical Safety Expert

Prof. Karen Shakespeare Kokkelink, P.Eng, CEM is a highly respected **Professional Engineer and Certified Energy Manager recognized for her expertise in the Canadian Electrical Code, electrical safety, and regulatory compliance.** With over 20 years of experience as both an engineer and educator, she has built a distinguished career **advancing electrical code literacy, safe electrical system design, and compliance across Canada.** She currently serves as a Professor at Conestoga College, where she teaches Electrical Engineering Technology, Energy Systems Engineering Technology, and Power Systems Engineering, and acts as Coordinator of Energy Systems Engineering Technology, aligning academic programs with national electrical standards and industry practice.

In addition to her academic leadership, Prof. Karen serves as a Principal Investigator with Conestoga's Applied Research and Innovation Office, where she leads **industry-focused projects addressing electrical safety, code compliance, energy efficiency, and the integration of emerging technologies within regulated electrical environments.** Professor Karen is actively engaged in professional education and technical outreach, contributing to speaking in forums on the Canadian Electrical Code, electrical inspection readiness, and compliance management across Canadian jurisdictions.

OUR PARTICIPANTS

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PROGRAM AGENDA



MODULE 1 - INTRODUCTION TO CANADIAN ELECTRICAL CODE PART 1

- Purpose, Object, Scope
- Layout Of The Code
- Definitions
- Rule Categories, etc
- Safety Of Persons And Property

MODULE 2 - GENERAL RULES

- Technical Rules
- Administrative Rules
- Authorities Having Jurisdiction (AHJs)
- Provincial Regulations

MODULE 3 - CONDUCTORS

- Conductor Sizing Calculations
- Installation
- Ampacity Calculations
- Temperature Dissipation

MODULE 4 - SERVICE INSTALLATIONS

- Point Of Attachment
- Marking
- Enclosures
- Metering, etc

MODULE 5 - LOAD CALCULATIONS

- Calculating Loads For Services, Feeders And Branch Circuits
- Demand Factors
- Safe Sizing

MODULE 6 - GROUNDING AND BONDING

- Protection By Grounding
- Methods Of Bonding
- Grounding And Bonding Applications
- Safety Examples

MODULE 7 - INSTALLATION OF ELECTRICAL EQUIPMENT

- Isolation
- Spacing
- Overcurrent Protection
- Disconnect Means
- Wiring Methods

MODULE 8 - MOTORS AND GENERATORS

- Protection And Control
- Installation
- Wiring
- Nameplates

PROGRAM AGENDA



MODULE 9 - ENFORCEMENT OF THE CODE

- Authorities Having Jurisdiction
- Government Agencies
- Municipalities
- Designated Bodies
- Permitting And Inspection
- Legal Implications
- Testing Standards

MODULE 10 - ENERGY AND SUSTAINABILITY

- Electric Vehicles
- Renewable Energy Systems
- Climate Resilience

MODULE 11 - FIRE SUPPRESSION AND ALARMS

- Fire Detectors
- Alarm Systems

MODULE 12 - THE BUILDING CODE

- National Consideration With Respect To Electrical
- Provincial/Territorial Considerations With Respect To Electrical

YOUR CHARTER DESIGNATION



Chartered Institute of Professional Certifications' programs are unique as they provide you with professional charter designations and marks that can be used across your lifetime once you have completed our programs.

Upon successful completion of this program, you will be awarded the **Certified Canada Electrical Code and Compliance Manager (CCE™)**, a prestigious credential that strengthens your professional portfolio and career profile. This certification carries **lifelong validity** and formally recognizes your ability to interpret and apply the Canadian Electrical Code, manage electrical safety risks, and ensure regulatory compliance across Canadian jurisdictions.

Developed by the **Chartered Institute of Professional Certifications**, the program is certified by the **CPD Certification Service** and adheres to the highest standards of continuing professional education. It validates your expertise in electrical code compliance, inspections, permitting processes, enforcement requirements, and emerging areas such as electric vehicle infrastructure and renewable energy systems. This certification will distinguish you as a trusted professional capable of safeguarding people and property, reducing compliance risk, and supporting safe, resilient, and code-compliant electrical installations.

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CONTACT US TODAY

We Thank You for Your Ongoing Support
of Our Programs

Singapore and Asia Pacific Enquiries

Email: advisor@charteredcertifications.com
Phone: +65 6716 9980
Address: Chartered Institute of Professional Certifications
1 Gateway Drive
#20-04 Westgate Tower
Singapore 608531

Australia and New Zealand Enquiries

Email: advisor@charteredcertifications.com
Phone: +61 3 9909 7310
Address: Chartered Institute of Professional Certifications
530 Little Collins Street, Level 1
Melbourne VIC 3000, Australia

UK, Europe and Middle East Enquiries

Email: advisor@charteredcertifications.com
Phone: +44 (020) 335 57898
Address: Chartered Institute of Professional Certifications
86-90 Paul Street
London, EC2A 4NE

USA Enquiries

Email: advisor@charteredcertifications.com
Phone: +1 888 745 8875
Address: Chartered Institute of Professional Certifications
99 Wall Street #3936
New York, NY 10005