

Ontario Electrical Safety Code for Design Engineers



ESA offers Electrical Engineers, Electrical Engineering Technicians and Technologists and Electrical Designers a three-day on-site training course. Ask your Client Safety Specialist for details.

Understand the Ontario Electrical Safety Code requirements to be considered during the design of new and existing electrical installations. The course includes pertinent information regarding installation practices and is designed to guide the learner from a general to a specific understanding of the Ontario Electrical Safety Code.



LEARNING OBJECTIVES:

Module 1 provides learners with a general understanding of the OESC structure, definitions and general rules, and includes requirements for conductor ampacities and circuit loading. The objective of module one is for learners to develop the ability to apply, calculate, and interpret the requirements of the OESC in design considerations.

Module 2 provides learners with information regarding grounding and bonding, protection and control, and wiring methods. The objectives of module two are for learners to develop an understanding of the relationships between various sections of the OESC, and to develop the ability to anticipate issues within specific installations when designing for compliance with the OESC.



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*Training is a non-regulatory service offered by the Electrical Safety Authority (ESA).
For more information visit
www.esasafe.com/about-esa/non-regulatory.*

MISSION: Improve electrical safety for the well-being of the people of Ontario.

VISION: An Ontario where people can live, work and play safe from electrical harm.

LEARNING OBJECTIVES (Continued):

Module 3 provides learners with an understanding of Ontario Electrical Safety Code installation requirements specific to electrical equipment, motors and generators, lighting equipment and high-voltage installations. The objectives of module three are for learners to gain awareness of wiring methods and how installation requirements can impact design considerations.

TOPICS:

- Module 1 - Introduction to the Ontario Electrical Safety Code
 - 1.1 Introduction — Structure of the Ontario Electrical Safety Code
 - 1.2 Section 0 — Object, scope, and definitions
 - 1.3 Section 2 — General rules
 - 1.4 Section 8 — Circuit loading and demand factors
 - 1.5 Section 4 — Conductors
- Module 2 - Protection Requirements and Installation Methods
 - 2.1 Section 10 — Grounding and bonding
 - 2.2 Section 14 — Protection and control
 - 2.3 Section 12 — Wiring methods
- Module 3 - Electrical Equipment Installations
 - 3.1 Section 26 — Installation of electrical equipment
 - 3.2 Section 28 — Motors and generators
 - 3.3 Section 30 — Installation of lighting equipment
 - 3.4 Section 36 — High-voltage installations

WHAT TO BRING:

- Ontario Electrical Safety Code (27th Edition) – You are required to bring the 2018 Ontario Electrical Safety Code book with you to the course.
- Pen, pencil, highlighter
- Calculator
- OESC Bulletins

PLEASE NOTE: This course does not attempt to render engineering or other professional services. If such services are required, the assistance of an appropriate professional should be sought.

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REGISTRATION FEES:

- Three-day public (Classroom) course: \$972.00 + applicable taxes
- To request a quote for a private course, contact a Client Safety Specialist at CSS.ContactUs@electricalsafety.on.ca
- \$10 CSA National Code License Fee + applicable taxes, applies per person
- Training registration cancellation requests will be subject to a refund processing fee of \$28 + applicable taxes.

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