



# CAMBRIDGE COLLEGE

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Call: +1 (604) 337-5300 | Email: info@cambridgecollegebc.com



BC Care Aide &  
Community Health  
Worker Registry



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## Program Title

Red Seal Industrial Electrician Exam Preparation Course

## Brief Program Description

The Industrial Electrician Red Seal Exam Preparation Course is an online program designed to equip aspiring industrial electricians with the knowledge and skills necessary to pass the Red Seal certification exam. This course offers comprehensive coverage of the National Occupational Analysis (NOA) for industrial electricians, with a focus on core trade knowledge, safety practices, and advanced problem-solving strategies specific to the industrial sector. Students will develop a strong understanding of Canadian electrical standards and practices for industrial settings, preparing them for the Red Seal certification.

## Career Occupation

Skilled Trade: Industrial Electrician

## Admission Requirements

- Minimum age of 19 years
- High School Diploma or equivalent
- IELTS minimum score of 5.5 (for International Students)
- Academic transcripts submitted in English

## Learning Objectives

Upon completing this online program, students will be able to:

- Understand the structure and requirements of the Red Seal exam for industrial electricians.
- Master essential electrical concepts and advanced skills relevant to industrial environments.
- Apply effective exam strategies, including time management and complex problem-solving techniques.
- Interpret and utilize the National Occupational Analysis (NOA) for industrial electricians.
- Demonstrate confidence in industrial electrical standards and Canadian industry practices.

## Method(s) of Evaluation

- **Participation / Attendance (10%):** Active participation in virtual classes and forums ensures students engage with instructors and peers, enhancing their understanding of complex topics.
- **Quizzes (20%):** Frequent quizzes assess understanding of key industrial electrical principles and safety protocols, allowing students to track progress and identify areas for improvement.
- **Project Assignments (20%):** Practical assignments provide hands-on experience in industrial electrical applications, focusing on diagnostics, troubleshooting, and system analysis.
- **Practice Exams (30%):** Timed, comprehensive exams simulate the Red Seal test environment, building familiarity with the question format and testing strategies.



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- **Final Exam (20%):** This comprehensive exam tests cumulative knowledge, ensuring students are exam-ready.

## Completion Requirements

A minimum grade of 70% is required to graduate.

## Program Duration

- **Total Duration:** 350 instructional hours, delivered over 36 weeks.
- **Homework Hours:** Estimated between 50–75 hours for assignments, projects, and practice exams.

## Delivery Method(s)

- **Online Learning:** The course is delivered through a blend of live virtual classes, interactive online modules, and self-paced study materials.

## Required Course Materials

1. **National Occupational Analysis (NOA) for Industrial Electricians:** This guide outlines the essential skills and knowledge needed for Red Seal certification.
2. **Canadian Electrical Code (CEC):** Essential for understanding Canadian standards for industrial electrical installations, maintenance, and safety practices.
3. **Red Seal Practice Exams for Industrial Electricians:** Provides exam-style questions to prepare students for the Red Seal exam's rigor.
4. **Canadian Industrial Electrical Textbook:** A comprehensive resource covering industrial electrical theory and practical applications, essential for exam preparation.

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## Program Organization

Module	Topic	Instructional Hours
C1	Canadian Trade Safety Awareness	20 hours
C2	Canadian Essential Skills & NOC Review	20 hours
C3	Blueprint Reading, Tools, and Electrical Code Review for Industrial Settings	60 hours
C4	Identification and Understanding of Industrial Electrical Systems	40 hours
C5	Motors, Generators, and Industrial Controls	40 hours
C6	Industrial System Design, Troubleshooting, and Diagnostics	50 hours
C7	Comprehensive Trade-Specific Exam Review	120 hours

**Total Hours:** 350 instructional hours