



# CAMBRIDGE COLLEGE

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BC Care Aide &  
Community Health  
Worker Registry



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## Program Title

Red Seal Truck & Transport Mechanic Exam Preparation Course

## Brief Program Description

The Red Seal Truck & Transport Mechanic Exam Preparation Course is an online program designed to equip mechanics with the knowledge and skills necessary to pass the Red Seal certification exam. This course covers the National Occupational Analysis (NOA) for truck and transport mechanics, with an emphasis on essential maintenance, repair techniques, safety protocols, and exam strategies. Students will build a solid foundation in Canadian standards for heavy-duty vehicle mechanics, preparing them for a successful career in the trade.

## Career Occupation

Skilled Trade: Truck & Transport Mechanic

## 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

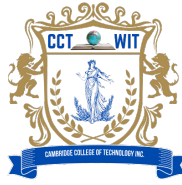
## Learning Objectives

Upon completion of this online program, students will be able to:

- Understand the structure and requirements of the Red Seal exam for truck and transport mechanics.
- Master core mechanical principles, maintenance techniques, and diagnostic skills.
- Apply effective exam strategies, including time management and troubleshooting methods.
- Interpret and utilize the National Occupational Analysis (NOA) for truck and transport mechanics.
- Build confidence in trade skills aligned with Canadian heavy-duty vehicle standards.

## Method(s) of Evaluation

- **Participation / Attendance (10%):** Active participation in live virtual classes and discussion forums enhances engagement and learning through peer interaction.
- **Quizzes (20%):** Regular quizzes test knowledge of key mechanical concepts, safety, and vehicle diagnostics, allowing students to track their understanding.
- **Project Assignments (20%):** Practical assignments involve diagnosing and resolving common mechanical issues, emphasizing problem-solving and repair skills.
- **Practice Exams (30%):** These timed exams simulate the Red Seal test, helping students familiarize themselves with the exam format and question types.
- **Final Exam (20%):** A cumulative assessment that evaluates the knowledge and skills acquired throughout the program, ensuring students are exam-ready.



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## Completion Requirements

A minimum grade of 70% is required to graduate from the program.

## 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:** Delivered through live virtual classes, interactive online modules, and self-paced study materials.

## Required Course Materials

1. **National Occupational Analysis (NOA) for Truck & Transport Mechanics:** A guide to the core competencies and skills required for Red Seal certification.
2. **Heavy Duty Truck Systems Textbook:** A comprehensive resource covering systems and components, essential for both practical and theoretical understanding.
3. **Red Seal Practice Exams for Truck & Transport Mechanics:** Exam-style questions that help students familiarize themselves with the format and difficulty of the Red Seal exam.
4. **Canadian Vehicle Standards and Safety Regulations:** Provides essential guidelines on safety and compliance in vehicle maintenance and repair.

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## Program Organization

Module	Topic	Instructional Hours
C1	Canadian Vehicle Safety Standards and Compliance	20 hours
C2	Canadian Essential Skills & NOC Review	20 hours
C3	Engine Systems: Diagnostics, Repair, and Maintenance	60 hours
C4	Electrical Systems, Wiring, and Troubleshooting	40 hours
C5	Brake Systems, Hydraulics, and Suspension	40 hours
C6	Powertrain and Transmission Systems	50 hours
C7	Comprehensive Trade-Specific Exam Review	120 hours

**Total Hours:** 350 instructional hours