



# CAMBRIDGE COLLEGE

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BC Care Aide &  
Community Health  
Worker Registry



StudentAidBC

## Program Title

Red Seal Millwright Exam Preparation Course

## Brief Program Description

The Red Seal Millwright Exam Preparation Course is an online program designed to prepare aspiring millwrights for the Red Seal certification exam. This course covers the National Occupational Analysis (NOA) for millwrights, focusing on core mechanical knowledge, machinery installation, maintenance skills, safety standards, and exam strategies. Students will gain the skills and confidence needed to meet Canadian industry standards and succeed on the Red Seal exam.

## Career Occupation

Skilled Trade: Millwright

## 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 millwrights.
- Master essential millwright skills, including machinery installation, maintenance, and troubleshooting.
- Apply effective exam strategies, including time management and mechanical problem-solving.
- Interpret and utilize the National Occupational Analysis (NOA) for millwrighting.
- Demonstrate confidence in millwright trade skills aligned with Canadian industry standards.

## Method(s) of Evaluation

- **Participation / Attendance (10%):** Engagement in live virtual classes and discussion forums ensures interactive learning and peer collaboration.
- **Quizzes (20%):** Regular quizzes assess understanding of mechanical principles, safety protocols, and machinery operations, helping students monitor their progress.
- **Project Assignments (20%):** Practical assignments allow students to apply millwright skills in real-world scenarios, emphasizing problem-solving and adherence to trade standards.
- **Practice Exams (30%):** These timed exams simulate the Red Seal test environment, helping students prepare for the exam's format and complexity.



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- **Final Exam (20%):** This final assessment tests cumulative knowledge, ensuring readiness for the Red Seal exam.

## Completion Requirements

A minimum grade of 70% is required for successful course completion.

## 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 Millwrights:** This guide outlines the competencies and knowledge needed for Red Seal certification.
2. **Canadian Mechanical Standards and Safety Code:** Essential for understanding Canadian safety regulations and machinery standards.
3. **Red Seal Practice Exams for Millwrights:** Exam-style questions prepare students for the structure and rigor of the Red Seal exam.
4. **Millwright Theory and Machinery Textbook:** A comprehensive resource on mechanical theory, machinery, and maintenance procedures, critical for both practical and theoretical exam preparation.

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## Program Organization

Module	Topic	Instructional Hours
C1	Canadian Safety Standards and Compliance	20 hours
C2	Canadian Essential Skills & NOC Review	20 hours
C3	Blueprint Reading, Precision Measurement, and Tools	60 hours
C4	Machinery Installation, Alignment, and Maintenance	40 hours
C5	Hydraulics, Pneumatics, and Power Systems	40 hours
C6	Troubleshooting and Repair Techniques	50 hours
C7	Comprehensive Trade-Specific Exam Review	120 hours

**Total Hours:** 350 instructional hours