



CAMBRIDGE COLLEGE

Unit 109, 8166 128th Street, Surrey, BC, Canada V3W 1R1 | DLI: O19394940342
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BC Care Aide &
Community Health
Worker Registry



StudentAidBC

Program Title

Red Seal Welder Exam Preparation Course

Brief Program Description

The Red Seal Welder Exam Preparation Course is an online program designed to prepare welders for the Red Seal certification exam. This course covers the National Occupational Analysis (NOA) for welders, focusing on key trade knowledge, welding techniques, safety practices, and exam strategies. Students will develop the skills and confidence to meet the Canadian welding standards, readying them for a successful career in welding.

Career Occupation

Skilled Trade: Welder

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 welders.
- Master essential welding techniques and trade-specific skills.
- Apply effective exam strategies, including time management and technical problem-solving.
- Interpret and utilize the National Occupational Analysis (NOA) for welding.
- Build confidence in welding trade skills according to Canadian industry standards.

Method(s) of Evaluation

- **Participation / Attendance (10%):** Active engagement in virtual classes and discussion forums ensures students interact with instructors and peers for an enhanced learning experience.
- **Quizzes (20%):** Regular quizzes assess understanding of welding principles, materials, and safety, allowing students to monitor their progress and review key concepts.
- **Project Assignments (20%):** Practical assignments enable students to apply welding techniques and problem-solving skills in simulated real-world scenarios.
- **Practice Exams (30%):** Timed exams simulate the Red Seal test, helping students become familiar with question formats and trade-specific problem-solving.
- **Final Exam (20%):** This comprehensive assessment evaluates the knowledge and skills acquired throughout the course, ensuring readiness for the Red Seal exam.

Completion Requirements



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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 Welders:** A comprehensive guide to welding standards and skills as outlined for the Red Seal exam.
2. **Canadian Welding Code (CWB):** This codebook provides essential information on welding standards, practices, and safety requirements in Canada.
3. **Red Seal Practice Exams for Welders:** Practice exams with exam-style questions prepare students for the format and rigor of the Red Seal certification exam.
4. **Welding Theory and Application Textbook:** A detailed resource on welding theory, materials, and techniques, critical for theoretical and practical exam preparation.

Program Organization

Module	Topic	Instructional Hours
C1	Canadian Trade Safety Awareness	20 hours
C2	Canadian Essential Skills & NOC Review	20 hours
C3	Blueprint Reading, Welding Symbols, and Welding Code Review	60 hours
C4	Identification and Properties of Welding Materials	40 hours
C5	Welding Processes and Techniques (SMAW, GMAW, GTAW, FCAW)	40 hours
C6	Welding Defects, Inspection, and Troubleshooting	50 hours
C7	Comprehensive Trade-Specific Exam Review	120 hours

Total Hours: 350 instructional hours