

Program Outline

Red Seal Exam HVAC Technician

Brief Program Description

This course is designed to help Heating, Ventilation, Air Conditioning, and Refrigeration (HVAC/R) technicians and apprentices prepare for the Red Seal certification exam. With a combination of theoretical reviews, hands-on insights, and exam-focused strategies, participants will gain the knowledge and confidence needed to earn their Red Seal endorsement—a mark of excellence in the HVAC/R trade.

Career Occupation* (if applicable)

- Skilled Trades in the following occupations
- HVAC Technician

Admission Requirements*

- Minimum age of 19 years old
- High School Diploma or Certificate of Completion
- IELTS minimum score of 5.5 (International Students) or College English Assessment test with min. 60%
- Academic transcripts submitted in English
- Minimum 3-5 years full time experience in the Trade

Learning Objectives*

Upon completion of this program the successful student will have reliably demonstrated the ability to:

- Understand the structure and requirements of the Red Seal exam for HVAC/R technicians.
- Recognize and understand key concepts, trade-specific knowledge, and skills required for the exam.
- Master HVAC/R system installation, maintenance, and troubleshooting techniques.
- Confidently apply safety protocols, building codes, and environmental standards.
- Develop a mastery of implementing exam strategies, including time management and handling multiple-choice questions.
- Enhance their understanding of refrigeration cycles, heating methods, and ventilation principles.
- An ability to understand the National Occupational Analysis (NOA) for their specific trade
- Gain greater confidence in exam taking skills
- Develop ways to manage their time.

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- Understand their skill level in their Trade and how it measure up to employer expectations

Method(s) of Evaluation*

Methods of evaluation will consist of the following:

- Participation / Attendance – 10%
- Quizzes – 20%
- Project Assignments – 30%
- Practice Exams & Final Exam – 40%

Completion Requirements*

Students must achieve a minimum grade of 70% in the class in order meet the graduation requirement for the program

Program Duration

Course consists of 350 instructional hours over a period of 18 Weeks

Homework Hours

Home work hours are set at an estimate of between 50 – 75 hours over a 18 week period

Delivery Method(s)

Combined delivery (both in-class and distance)

Required course materials

The following text book List is required for this program:

- BC Building Codes 2024 (Binder-Included Edition) – Province of British Columbia
- Red Seal Study Guide/Year Four HVAC Technician – Unity Crest Solutions Inc.

Program Organization*

Module	Topic	Instructional Hours
C1	Canadian Trade Safety Awareness	20 Hours
C2	Canadian Essential Skills and NOC Classification system review	20 Hours
C3	Review of sketches and drawings, Tools and Canadian Codes	60 Hours
C4	Selection and Identification of key Block areas for study	20 Hours
C5	Review and study of Key Block areas Instruction for the exam	30 Hours
C6	Specific Trade exam review	200 Hours

Total Instructional Hours

350 Hours