



Brief Program Description

This course is specifically designed to assist machinists and apprentices in preparing for the Red Seal certification exam. It combines theoretical knowledge, practical skills, and exam-focused strategies to help participants confidently achieve their Red Seal endorsement, a symbol of excellence in the machining trade.

Career Occupation* (if applicable)

- Skilled Trades in the following occupations
- Machinist

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:

- Have a comprehensive understanding of the Red Seal Machinist exam format and expectations.
- Recognize and understand key concepts, trade-specific knowledge, and skills required for the exam.
- Enhance their knowledge of machining processes, tools, and materials.
- Confidently interpret blueprints and apply GD&T principles.
- Develop a mastery of implementing exam strategies, including time management and handling multiple-choice questions.
- 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.
- 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:
- Machinery’s Handbook Pocket Companion
 - COMPILED AND EDITED BY RICHARD P. POHANISH
 - CHRISTOPHER J. M CC AULEY , S ENIOR S TAFF EDITOR
 - M UHAMMED I QBAL HUSSAIN, A SSOCIATE P ROJECT EDITOR
 - I NDUSTRIAL P RESS, I N
 - Red Seal Study Guide/Year Four Machinist – 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