



## Welder Red Seal Preparation Course January – March 2017

This 2-part course (theory and practical testing\*) is designed to prepare an individual who has gone through the apprenticeship schooling, but has not yet written the Red seal exam, or has previously been unsuccessful in their attempt to challenge the welder red seal exam.

This course is also for individuals who never went through the apprenticeship, but have been working as a welder for more than 6000 hours and wish to challenge to obtain their Red Seal status.

**\*PLEASE NOTE: New as of 2017 there is now a National Practical Assessment test that has been mandated by the College of Trades that is required in order to obtain your Red Seal.**

*We do not guarantee the individual will be successful in their challenge. It is the individuals responsibility to book and pay for the exam upon completion of the preparation course.*

**Prerequisites:** Participants should be either Level 3 Welding Apprentices, have completed the Apprenticeship schooling, or be experienced welders who are interested in challenging the Welder Red Seal exam.

**Application deadline:** January 9, 2016

**Training Duration:** This 40-hour course is delivered 1 night per week on Monday's, for 10 weeks from 6:00pm – 10:00pm. Start date is Monday, January 16, 2017 and projected completion date is Monday, March 27, 2017 (No classes Feb 20, or March 13. End date may also need to be extended if any cancellations occur due to weather).

### **PART 1: Theory Preparation Training**

#### **Objectives**

The Red Seal exam is a series of questions from a breakdown of the following topics and percentages.

- |                      |  |
|----------------------|--|
| 1) Occupation Skills | 21% (Blueprint reading, layout & fabricating)        |
| 2) Quality Control   | 12% (Codes, Specifications, inspections)             |
| 3) Cutting Processes | 17% (oxy-fuel, plasma, air carbon arc)               |
| 4) Gouging Processes | 10% (air carbon arc, plasma, oxy-fuel cutting)       |
| 5) Welding Processes | 40% (OFW, SMAW, FCAW, GMAW, GTAW, SAW, SW, RSW & RW) |



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In light of this, our theory training is broken down as follows with the time allotment based on the weighting of the written test.

- Occupation Skills (Blueprint Reading (2/3)/Fabricating (1/3))
  - Blueprint Reading
  - Joint Design and Weld Symbols
  - Practical Fitting Project
  
- Welding Theory (arc welding processes)
  - Power Sources & Equipment
  - Shielded metal Arc Welding (SMAW)
  - Gas Metal Arc Welding (GMAW)
  - Flux Cored Arc Welding (FCAW)
  - Gas Tungsten Arc Welding (GTAW)
  - Plasma Arc Welding (PAW)
  - Submerged Arc Welding (SAW)
  - Stud Welding
  
- Quality Control (material and process quality)
  - Distortion
  - Weld Quality
  - Metallurgy II
  - Distortion II
  - Inspection & Codes
  
- Cutting and Gouging processes
  - Oxy-Fuel Gas Cutting
  - Plasma Arc Cutting
  - Air Carbon Arc Gouging
  - Custom developed material

### **Part 2: Practical Testing**

New as of 2017 there is now a National Practical Assessment test that has been mandated by the College of Trades, which is required prior to writing your Red Seal exam.

***For more details please contact OCOT, or visit their website.***

This practical assessment will be scheduled and held at our weld site in room 109 (testing date TBD) following the theory portion of the Red Seal Preparation Course.

The practical assessment is comprised of 6 individual tests (5 weld tests and one oxy-acetylene test) and you must pass all 6 of these tests to complete this practical assessment requirement.



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Upon successful completion of this testing you will receive a proof of completion form/assessment sheet. You must then present this proof of Practical Assessment testing when booking your Red Seal challenge.

The cost of the National Practical Assessment Test will be \$400 (based on a minimum of 6 participants). Availability for additional practice dates if required (and fees), as well as the assessment testing date will be discussed and finalized in January.

**To enroll in the Theory Portion of the Red Seal Preparation Course please fill out the application posted on the Technical Training Group website. For further information please contact Shawn Bontaine, Business Manager for the Technical Training Group, at 519 801-8844.**



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