



## Welder Red Seal Preparation Course January – March 2018

This Red Seal Preparation Course is a 40-hour theory course 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 process, but have been working as a welder for more than 6000 hours and wish to challenge the exam to obtain their Red Seal status.

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

***\*PLEASE NOTE: Effective March 1, 2017 all apprentices and individuals going through the Trade Equivalency Assessment are required to complete a welder practical assessment prior to the written examination. Upon successful completion of both the practical assessment and the written examination, a Certificate of Qualification with a Red Seal Endorsement (RSE) will be issued.***

***This is practical testing is NOT included as part of the 40-hour Red Seal Prep Course, however TTG is a designated testing centre. To learn more about the Trade Equivalency Assessment or to register for testing, please see our website for more details.***

**Red Seal Prep 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 3, 2017

**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 8, 2018 and projected completion date is Monday, March 26, 2017\* (No classes Feb 19, or March 12)

***\*End date may change, if any cancellations occur due to weather or other unforeseen circumstance.***

### **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 | (Applied Drawing Interpretation, layout & fabricating) |
| 2) Quality Control   | (Codes, Specifications, inspections)                   |
| 3) Cutting Processes | (Oxy-fuel, plasma, air carbon arc)                     |



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- 4) Gouging Processes (Air carbon arc, plasma, oxy-fuel cutting)  
5) Welding Processes (OFW, SMAW, FCAW, GMAW, GTAW, SAW, SW, RSW & RW)

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))
  - Applied Drawing Interpretation
  - 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

**To enroll in this 40-hour Red Seal Preparation Course please fill out the application posted on the Technical Training Group website. For further information please contact the Technical Training Group at 519 801-8641.**

**IMPORTANT REMINDER: The Welder Practical Assessment testing is now required for Welder Red Seal certification process and Trade Equivalency Assessment applicants must submit proof of completion to the Ontario College of Trades as part of their Trade Equivalency Assessment application. Please see TTG website for testing availability and details.**