



2010 Regional Skills Canada Competition

Scope Document

LOCATION: GPRC FAIRVIEW CAMPUS

DATE: April 22 and 23, 2010

EVENT: Welding	LEVEL: Secondary
START TIME 8:00 AM APRIL 23, 2010 ORIENTATION: THURSDAY APRIL 22, 8:00 – 8:45 P.M COMPETITION: Starts 8:00 A.M. April 23, 2010	LOCATION: GPRC FAIRVIEW CAMPUS
THEORY EXAM: No	DURATION: 4 Hours (1 Day)
WORLDSKILLS TRADE #: 10	REGIONALIZED EVENT: Yes

GENERAL DESCRIPTION

To enable competitors to demonstrate their knowledge & skill of welding and oxy - fuel cutting principles. The competition will consist of a practical examination. Competitors will be expected to utilize their practical skills & knowledge in drawing interpretation of oxy – fuel cutting, fitting, and welding. The following processes are applicable: SMAW, GMAW, and Oxy – fuel. Safety procedures will also be evaluated.

RELATED CAREER AND TECHNOLOGY STUDIES & ILM MODULES that pertain to this Project

CTS Modules:

FAB 1040 FAB 2020 FAB 3048
 FAB 1048 FAB 2030 FAB 3050
 FAB 1050 FAB 2040 FAB 3060
 FAB 2048 FAB 3170
 FAB 2050
 FAB 2060
 FAB 2070

ILM Modules:

101B 102A 103A
 101C 102B 103B
 101G 102C 103C
 101I 102D 103D
 101F 103F, G & H

SAFETY REQUIREMENTS:

Competitors must provide the following safety requirements or will not be allowed in the competition area

- Work Boots (CSA Approved steel toe work boots)
- Side shields required for prescription glasses
- Welding Helmet
- Welding Gloves
- Cutting Goggles # 4 or 5 lens
- Appropriate clothing (100% cotton coveralls recommended)
- Long sleeve denim shirt or jacket, 100% cotton
- Competitors are required to follow all industry standards during the competition

COMPETITORS WILL BE SUPPLIED WITH THE FOLLOWING PPE AT THE EVENT SITE

- Safety Glasses
- Ear plugs

Equipment and Materials:

Supplied by Committee

Welders	Chipping Hammer	Cutting Templates	Fixed Positioners
Wire Brushes	Cutting Torches	Soap stone	
Straight Edge Welding Consumables			

Competitor Must Supply

Competitor tools will be LIMITED to the following:

Tri Square	Imperial Tape Measure	magnets
Center Punch	Vice Grips/pliers	
Pipe Liner Files	Hammer/ Cold Chisel	

And appropriate safety gear as stated on page 1

JUDGING CRITERIA

Safety	Strays Arcs	Measurements
Weld Size	Undercut	Dimensions
Penetration	Regularity of Kerf	Following Instructions
Overall Appearance	Fit-Up	

ADDITIONAL NOTES

The regional skills competitors should be prepared to apply their theory knowledge in layout and drawing interpretation to complete a 4 hour practical project which may include but not limited to the following tasks:

- Oxy-fuel cutting
- SMAW 1G Butt Weld with E4310 3.2mm. Root & Fill & Cap with E4918 2.5mm or 3.2mm
- GMAW 1G Butt Weld with E 70S-6 (.035) Root & Fill & Cap
- SMAW GMAW & FCAW 1F, 2F & 3F Welds