



2010 Wood Buffalo Regional Skills Canada Competition

Scope Document

Keyano College

Friday March 26, 2010

EVENT: Welding	LEVEL: Secondary
START TIME ORIENTATION: 8:00 COMPETITION: 8:30	LOCATION: Keyano College Welding Lab
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

****NOTE****

In order to compete in the competition, students must have shown the ability to complete the following welding techniques:

Oxy-fuel cutting

SMAW

GMAW



SAFETY REQUIREMENTS:

- 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
- Safety Glasses
- Ear Plugs

All Equipment and Materials supplied by Keyano College:

Fixed Positioners Straight Edges Welding Consumables

Equipment and Materials competitors MAY supply: and are limited to the following

Pipe Liner Files	Chipping Hammer	Centre Punch	Hammer	Imperial/Metric Tape
Wire Brushes	Tri Square	Striker	Soap Stone	
Vice Grips/Pliers	Cold Chisel	Tip Cleaners	Magnets	

JUDGING CRITERIA

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

IMPORTANT GENERAL INFORMATION

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

COMMITTEE MEMBERS

RANDY RINGHEIM