

2010 Provincial Skills Canada Competition

Scope Document

Edmonton Expo Centre

May 12 & 13, 2010

EVENT: Welding	LEVEL: Post Secondary
START TIME 7AM DAY ONE: ORIENTATION: 7AM-7:30 COMPETITION: 7:30am 11am DAY TWO: ORIENTATION: 7am COMPETITION: 7am-9:30am	LOCATION: Hall A, Edmonton Expo Centre
THEORY EXAM: No	DURATION: 6 Hours (over 2 days) 3.5 day 1 2.5 day 2
WORLDSKILLS TRADE #: 10	REGIONALIZED EVENT: Yes

GENERAL DESCRIPTION

The competition will consist of a practical examination.

Competitors will be expected to utilize their practical skills & knowledge in drawing interpretation, oxy-fuel cutting, fitting and welding, SMAW GMAW GTAW FCAW and Safety procedures will be evaluated

PURPOSE OF CHALLENGE:

To enable competitors to demonstrate their knowledge & skill of welding and oxy-fuel cutting principles.

Equipment and Materials supplied by Committee:

fixed positioners
spinners
welding consumables

Equipment and Materials competitors must supply:

Competitor tools will be limited to the following:

pipe liner files	wire brush	vice grips/pliers
flash light	magnets	fillet gages
chipping hammer	Imperial/metric tape measure	striker
tri square	centre punch	tip cleaners
cold chisel	soap stone	hammer

JUDGING CRITERIA

safety	stray arcs	measurements
weld size	undercut	dimensions
penetration	regularity of kerf	following instructions
overall appearance	fit – up	



IMPORTANT GENERAL INFORMATION

Tie Breaking Procedure
Safety Requirements
Clothing Requirements (if applicable)

SCHEDULE (OPTIONAL)

Competitors will be required to complete a (6) hour project over two days as follows:

(Day 1) consists of (0.5) hours of orientation and (3.5) hours of competition. Orientation will be from 7am- to 7:30am. Competition will be from 7:30am to 11am.

(Day 2) consists of (2.5) hours of competition. Competition will be 7:00am. to 9:30am

ADDITIONAL NOTES

Provincial skills competitors should be prepared to apply their theory knowledge in layout and drawing interpretation to complete a 6 hour practical project which may include but not limited to the following tasks:

- Oxyacetylene cutting
- SMAW- Groove welds on plate, root E6010 1/8, (E4310 3.2mm) fill and cap E7018 3/32 or 1/8, (E4918 2.5mm or 3.2mm).
- SMAW pipe welds, root E6010 1/8 (E4310 3.2mm) fill and cap E7018 3/32 (E4918 2.5mm or 3.2mm)
- Fillets 1F 2F, 3F, E 7018 3/32 or 1/8 (E4918 2.5mm or 3.2mm)
- GMAW- root down fill and cap up
- GTAW- pipe ER 70S 3/32 or 1/8 root/fill E7018 3/32 or 1/8 (4918 2.2mm or 3.2 mm) fill/cap
- FCAW
- GTAW – Alum.



COMMITTEE MEMBERS:

Adam Medrek
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John Thalen
Ken Heather
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Robert Shaw
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SAIT
Advanced Education
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Northern Alberta Institute of Technology
SAIT

Red Deer College
Lincoln Electric
Shaw's Welding Consulting
Advanced Education
Portage College
Lethbridge College