

Welding 2011 SCOPE DOCUMENT



Medicine Hat College
April 14, 2011

Event:	Welding	Location:	T130, T135, T136
Registration:	7:00-8:00 a.m.	Contest Start Time:	8:30 a.m.
Orientation:	8:00-8:30 a.m.	Contest End Time:	3:00 p.m.
Contest Duration:	5.5 hours	Awards Program:	4:30 p.m.

GENERAL DESCRIPTION:

Competitors are to demonstrate their knowledge & skill of welding principles through a practical examination. Competitors will be expected to utilize their practical skills & knowledge in drawing interpretation of fitting and welding. The following processes are applicable: SMAW, GMAW, and FCAW. Safety procedures will also be evaluated.

RELATED CAREER AND TECHNOLOGY STUDIES & ILM MODULES:

Module descriptions are available through the following website:
Government of Alberta/ Education/ Career and Technology Studies/ Trades and Manufacturing
<http://education.alberta.ca/teachers/program/cts/program-of-studies/tmt.aspx>

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:

- Work Boots (CSA Approved steel toe work boots recommended)
- 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
- Safety Glasses
- Ear Plugs
- Competitors are required to follow all industry standards during the competition

The following tools will be supplied, but competitors may choose to bring their own:

Cold chisel	Hammer	Tape measure
Combination square	Pipe liner files	Vice grips/pliers

JUDGING CRITERIA:

Judging criteria will be based upon the contest objectives listed in this document:

Dimensions	Overall appearance	Stray arcs
Fit-up	Penetration	Undercut
Following instructions	Regularity of kerf	Weld size
Measurements	Safety	

ADDITIONAL NOTES:

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

- Oxy-fuel cutting
- SMAW 1G Butt Weld
- GMAW 1G Butt Weld
- SMAW GMAW & FCAW 1F, 2F & 3F Welds

***Competitors are expected to do all welds in specified positions. Failure to do so **will** result in disqualification*

TIE-BREAKER PROCESS:

If two or more participants are tied in points at the end of the competition, the following shall apply to determine the placing.

Step 1: Re-evaluate the affected projects with different judges.

Step 2: Participant with the highest **PROJECT** score.

Step 3: Participant who has completed the project in the least amount of time.

TECHNICAL JUDGES:

Cal Aasman	MHC Instructor
Rick Ackerman	MHC Instructor
Jason Bonogofsky	MHC Instructor
Dale Lambert	MHC Instructor
Cody Millington	Hranco Industries Ltd.
Barry Gutfriend	Bromley Mechanical Services Ltd.
Merl Mayer	Affinity Welding & Mechanical Ltd.

COMMITTEE MEMBERS:

Cal Aasman	MHC Instructor
Rick Ackerman	MHC Instructor
Jason Bonogofsky	MHC Instructor
Dale Lambert	MHC Instructor
Barry Gutfriend	Bromley Mechanical Services Ltd.
Cody Millington	Hranco Industries Ltd.
Henry Rempel	Medicine Hat High School
Susan Feeney	Project Manager, Southeast Alberta Regional Skills Competition