

Welding 2010 SCOPE DOCUMENT



Medicine Hat College
April 29, 2010

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 CEREMONY:	4:30 p.m.

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:

Descriptions of all modules is located on the following website:

<http://www.education.gov.ab.ca/cts/fabricat/>

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)
- 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

EQUIPMENT AND MATERIALS:

Supplied by committee:

Cutting goggles #4 or #5 lens	Fixed positioners	Tip cleaners
Chipping hammer	Striker	Welding consumables
Face shield	Soap stone	Wire brush
Safety Glasses	Ear Plugs	

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 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

*****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.

******Note: Competitors are required to follow all industry safety standards during the competition. No portable sound systems, cell phones, food or drink will be allowed in the contest area***

TECHNICAL JUDGES:

Cal Aasman	MHC Instructor
Rick Ackerman	MHC Instructor
Jason Bonogofsky	MHC Instructor
Phil Bosch	MHC Instructor
Dale Lambert	MHC Instructor
Lance Mielke	Saskatchewan Power
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.
Henry Rempel	Medicine Hat High School
Susan Feeney	Project Manager, Southeast Alberta Regional Skills Competition