



2008 QUALIFYING COMPETITION

WELDING - SECONDARY LEVEL

Date: Saturday, April 12, 2008

Locations: Canadore College, Fanshawe College, Georgian College, Humber Institute, Niagara College, St. Lawrence College

COMMITTEE MEMBERS:

OTSC Chair – Joe Barnes

Canadore College – Shawn Alyman

Fanshawe College – Randy Sweetzir

Georgian College – Phil LeBoeuf

Humber Institute – Bob Smith

Niagara College – Mike Nicholas

St. Lawrence College – Ray West

**** 1st, 2nd and 3rd place eligible competitors will advance to the Ontario Technological Skills Competition, taking place May 6, 2008 in Waterloo**

PURPOSE OF THE CONTEST:

To provide competitors with the opportunity to demonstrate, both through practical and theoretical application, their skills and knowledge in the industry relevant to:

- Safety oriented welding and metal fabrication
- Blueprint reading
- Welding symbol interpretation

SKILLS AND KNOWLEDGE TO BE TESTED:

Practical 95% Job Interview 5%

- General safety on arc welding equipment and safe working habits
- Selection of arc welding electrodes by their CSA metric classification
- Shielding gases for GMAW
- Blueprint reading ability (dimensions will be provided in metric - mm only)
- Transfer of information from blueprint to the project
- Layout, position, fit and tack weld components
- Welding with various processes, SMAW, GMAW
- Interpretation and application of welding symbols
- Cleaning of finished welds

PROJECT: MILD STEEL STRUCTURE (5 HOURS, 95%) WELDING

SMAW:

- 2G, (horizontal, root) E4310, 3.2mm
- 2G, (horizontal, fill and cap) E4918, 3.2mm
- 2F, (horizontal) E4918, 3.2mm
- 3F, (vertical) E4918, 3.2mm

GMAW:

- 2F, (horizontal) ER 49S 6, 0.9mm

1G, (root, fill, cap) ER 49S 6, 0.9mm
Gas, 75% Argon + 25%Co2

CONTEST DRAWINGS WILL BE AVAILABLE the day of the competition

RULES AND REGULATIONS:

Please be sure to review the rules and regulations that apply to all contests. These are available in the Competition Information package, or online at www.skillsontario.com.

JUDGING CRITERIA:

Safety	10
GMAW	30
SMAW	40
Fitting	15
Job Interview	5
Total	100

A tie will be broken by the highest score in the SMAW criteria.

EQUIPMENT AND MATERIALS:

Supplied by Committee:

- All power sources, consumables and test materials. Materials may be pipe or plate.

Supplied by Competitor:

- Tape measure (metric, millimetres)
- Soap stone
- Scriber, pen, pencil
- Vise, grip, clamps, magnets
- Chipping hammer
- Wire brush
- Cold chisel
- Divider
- Hammer
- Center punch
- Mig pliers, needle nose
- All safety equipment as outlined below

SAFETY:

Safety is a priority at the 2008 Qualifying Competitions. At the discretion of the Judges and Committee Members, any competitor can be removed from the competition site for not having the proper safety equipment or for not acting in a safe manner. Competitors must bring the following safety equipment to be worn during the contest:

1. CSA approved safety glasses
2. CSA approved safety boots
3. Welding helmet (#10 lens minimum)
4. Gloves
5. Speed lenses are permitted

**** Please note: *Failure to wear personal protective equipment in an appropriate manner will result in loss of marks. The 3rd warning will result in competitor being disqualified from contest.***

CLOTHING REQUIREMENTS:

Competitors are to be dressed in a clean and appropriate manner in work clothing appropriate for welding. Competitors are not permitted to wear clothing with added logos or printing. The exception is the logo of the school and/or school board that the competitor is representing.

JOB INTERVIEW:

To assist competitors to fully prepare for their eventual job searches and to become valued employees, there is a job interview component incorporated into this contest. It is expected that the competitors arrive prepared WITH A RÉSUMÉ and be prepared for interview questions and discussion. Competitor's performance on the interview will be worth 5% toward final contest standings. Sample interview questions are available at www.skillsontario.com/hr.

COMPETITION AGENDA:

Saturday, April 12, 2008

Qualifying Competitions

9:00-9:30 a.m.	Registration and Announcements
9:30-9:40 a.m.	Move to Contest Areas
9:40-10:00 a.m.	Orientation Session
10:00 a.m.-12:00 p.m.	Contest*
12:00-12:30 p.m.	Lunch
12:30-3:30 p.m.	Contest*
3:30-4:30 p.m.	Final Judging and Results Compilation
4:30-5:00 p.m.	General Feedback Session
5:00 p.m.	Awards Presentation

*Contest time includes practical project and job interview component.

ADDITIONAL INFORMATION:

- Registration and orientation (required attendance)
- Latecomers will not be allowed to enter the competition
- Butane lighters are not allowed in the welding area
- Grinding is not permitted
- Follow all shop safety rules at all times
- *Note to Teachers/Advisors:* Student competitors depend on the mentorship and guidance of teacher/advisors in order to effectively prepare for competitions such as this. Accordingly, teacher/advisors are ***strongly encouraged*** to ensure their students have adequate time to practice the technical and safe work skills required in this competition. At a minimum, competitors should be thoroughly instructed in the correct and safe use of the welding equipment and safety procedures.
- **Note:** Due to safety concerns and contest security - the general public, teachers, mentors and advisors will not be permitted in the contest area during the Welding competition. Any contact with the competitors during competition is not permitted and could result in a disqualification.

Skills Canada – Ontario is pleased to recognize the following supporters of the Welding contest:

Lincoln Electric
Ryerson