2012 QUALIFYING COMPETITION

WELDING - SECONDARY LEVEL

Date: Saturday, April 14, 2012

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

COMMITTEE MEMBERS:
Canadore College – Pierre Beaudoin
Confederation College – Jim Dyson
Fanshawe College – Randy Sweetzir
Georgian College – Phil LeBoeuf and Bob Denison
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 1, 2012 in Waterloo

***See the Competition Information Package for the Qualifying Competition eligibility criteria, advancement, and rules and regulations**

For technical questions that are contest specific, please contact the Skills Canada – Ontario Competition Department at otsc@skillscanada.com

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 100%

- 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

*****NO CELL PHONES ARE ALLOWED IN THE CONTEST AREA*****

SKILLS WORK!

This document is only to be used in preparation for the Qualifying Competition.

Project: Mild Steel Weldment (5 hours 100%)

SMAW:
1G root E4311/2.4 mm (flat)
1G fill & cap E4918/3.2 mm (flat)
2G root E4311/2.4 mm (horizontal)
2G fill & cap E4918/2.4 mm (horizontal)
3G root, fill, & cap E 4918/2.4 mm (vertical)

2F E4918/3.2 mm (horizontal)
3F E4918/2.4 mm (vertical)
4F E4918/3.2 mm (overhead)
5F E4918/3.2mm (multi position)

GMAW:
1G root & fill ER49S/0.9 mm (flat)
2G root & fill ER49S/0.9 mm (horizontal)
2F ER49S Fillet/0.9 mm (horizontal)

GAS 75/25 Argon/CO2

Contest drawings will be available the day of the competition.

RULES AND REGULATIONS:
Please be sure to review all rules and regulations in the Complete Competitor Information Package, available online at www.skillsontario.com/compinfopkg.

New rules and regulations in the Competition Information Package that will be enforced for 2012 include:

- Plagiarism
- Registration Deadlines

Please review all rules and regulations and the registration process well in advance of the Qualifying.

Immediate disqualification may occur at the discretion of the technical chair if a competitor displays any one of the following:

- Acts inappropriately
- Shows disregard for the safety of themselves or those around them
- Breaks the established rules and regulations including:
  - Uses equipment or material that is not permitted
  - Dishonest conduct (cheating)
  - Speaks with those outside the contest area
  - Arrives to the contest site late

Sign-in for all contests will happen at the Qualifying host college the morning of the competition. Registration must take place prior to the deadline of March 23, 2012.

JUDGING CRITERIA:

Safety	**10**
GMAW	**30**
SMAW	**40**
Fitting	**20**
Total	**100**

As the rules state, there are no ties. If the score is even after the contest, the SMAW component will be used as the tie breaker.

EQUIPMENT AND MATERIALS:

Supplied by Committee:

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

Supplied by Competitor:

- Combination square set
- Fillet gauges
- File
- 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 in "Safety" section

SAFETY:

Safety is a priority at the 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 eyewear (including side shields for prescription eyewear).*
2. CSA approved safety footwear*
3. Welding helmet (#10 lens minimum)*
4. Welding gloves*
5. Speed lenses are permitted*
6. Proper shop attire is to be worn (no loose straps, baggy sleeves). Any attire that is deemed unsafe by competition judges will not be permitted.*
7. Jewellery such as rings, bracelets and necklaces, or any items deemed unsafe by competition judges, shall be removed.*

*Competition judges will have final authority on matters of safety.

** 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 logos or printing. The exception to this rule is the logo of the school or school board the competitor is representing. ONLY the logo of the institution under which the space is registered can be visible. Corporate logos or names are not permitted on a competitor's clothing.

JOB INTERVIEW:
Please note that the job interview component has been removed from all Qualifying Competition contests. If the competitor advances to the Ontario Technological Skills Competition, the competitor will be required to participate in the job interview at that level. Please see the provincial scope for details.

COMPETITION AGENDA:
Saturday, April 14, 2012
Qualifying Competitions

****Please note the agenda has changed from previous years**

8:30-9:00 a.m.	Sign-in and Announcements
9:00-9:10 a.m.	Move to Contest Area
9:10-9:30 a.m.	Orientation Session at Contest Area
9:30 a.m.-12:00 p.m.	Contest
12:00-12:30 p.m.	Lunch
12:30-3:00 p.m.	Contest
3:00-4:00 p.m.	Final Judging and Results Compilation (Judges and Committee Members)
3:30-4:00 p.m.	General Feedback Session
4:00 p.m.	Presentation
5:30 p.m.	Awards Presentation and Advancement Meeting

ADDITIONAL INFORMATION:

- Sign-in and orientation are mandatory
- Latecomers <u>will not</u> 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 contest. Any contact with the competitors during competition is <u>not permitted</u> and could result in a disqualification.