

PURPOSE OF THE CONTEST

To provide competitors with the opportunity to demonstrate their skills and knowledge in the *Welding & Fabrication* field through practical and theoretical application.

To test and evaluate Ontario's youth on the various safety, welding, fitting, welding symbols and blueprint reading skills, as a Pre-Qualifier Skills Competition.

Minimum number of students is 7 maximum numbers of students is 15

SKILLS AND KNOWLEDGE TO BE TESTED

Practical 100%

Students will be tested on:

- General safety on welding, safe working habits.
- Correct selection of CSA classification welding electrodes
- Selection of welding variables
- Shielding gases
- Blueprint reading ability (dimension will be in millimeters only)
- Ability to transfer blueprint measurements and other information to the project.
- Layout, position, fit and tack weld components.
- Weld with various processes i.e.: Shielded Metal Arc Welding (SMAW) Gas Metal Arc Welding (GMAW)
- Interpretation and application of welding symbols
- Cleaning of finished welds

EQUIPMENT AND MATERIALS

Loyalist College will supply the following:

All power source, consumables and testing materials, tape measure (Metric), chipping hammer, scrap plate, soap stone, wire brush, divider, scribe, pen, and pencil, paper, cold chisel, striker, vice grip, clamps, magnets, centre punch, hammer, 12" square set, ear plugs, calculator, 2-foot square, ear protection

Exception for above Equipment and Materials

No exceptions

Supplied by Competitor:

Auto darkening welding helmet or welding helmet with minimum #10 lens, welding gloves, welding jacket, work jeans

Exception for above Equipment and Material Supplies by Competitor

No exceptions

Any competitor that brings tools not mentioned above will be asked to remove them from the contest site.

SAFETY

Safety is a priority at the Loyalist College Skills Competition. At the discretion of the judges and technical chairs, any competitor can be removed from the competition site for not having the proper safety equipment and/or not acting in a safe manner.

1. It is mandatory for all competitors to wear CSA approved eyewear (including side shields for prescription eyewear). *
2. It is mandatory for all competitors to wear CSA approved footwear 6 inch boot height required *
3. All competitors must have and wear appropriate welding gloves, and welding jacket, along with work jeans that will go over top of boots *
6. Ear protection is mandatory. *

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4. Jewelry such as rings, bracelets and necklaces, or any items deemed unsafe by competition judges, shall be removed. *
5. Any attire, that is deemed unsafe by competition judges, will not be permitted.
6. * 6. Cell phones are not permitted on the shop floor.

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

JUDGING CRITERIA

A. SMAW	30%
B. GMAW	50%
C. Fit-up/welding symbols	20%
Total:	100%

Final Mark out of 100%

Note:

All contest areas will use objective marking only. A required task must be completed to obtain a score. No part marks will be awarded.

TIE BREAKER

There are no ties, if the score is even after the contest, the following tie breaker rules will apply. 1st tie breaker will be the competitor who finishes the welding project first, 2nd tie breaker will be the competitor who followed the safety rules the best.

RULES AND REGULATIONS

Please be sure to review all rules and regulations in the Complete Competitor Information Package.

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 (**Butane lighters are not allowed in the welding area**)
 - Grinding is not permitted.
 - Dishonest conduct (cheating)
 - Speaks with those outside the contest area.
 - Arrives to the contest site late (latecomers will not be allowed to enter the competition)

CLOTHING REQUIREMENTS

Competitors are to be dressed in a clean and appropriate manner and follow previously stated safety policy.

ANY QUESTIONS PLEASE CONTACT

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Welding Skills Pre-Qualifier Skill Competition Loyalist College

