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1. General Contest Information

1.1: Purpose of Contest

To provide competitors with the opportunity to demonstrate, through practical and theoretical application, their skills and task knowledge in the industry relevant to practiced skills, what is found in industry, and employment.

1.2: Objective/Description of event

Students will need to fit up precut metal pieces in a figure and weld the parts together according to the drawing

The competition will take place at St. Lawrence College on Thursday, February 26th, 2026.

1.3: Technical Committee

Chair(s): Becky Mair, smithr@limestone.on.ca

Judge(s): Tiffany Floud and Norm Sinder

1.4: Contest Schedule

Date and Location: Thursday, February 26, 2026 – St. Lawrence College

9:00 - 9:30	Competitor Registration and Welcome (Cafeteria)
9:30 – 12:30	Competition
12:30 – 1:00	Lunch
1:00 – 3:30	Competition
3:30 – 4:00	Clean-Up
4:00 – 5:00	Dinner (pizza provided)
5:00 – 6:30	Awards Ceremony (Gymnasium)
6:30 – 7:30	Open house and collection of projects/tools

*Competitors must be on time for their contest or may be disqualified at the discretion of the Technical Committee.

Closing ceremony: Thursday, February 26th hosted at St. Lawrence College at 5:30pm



2. Skills and Knowledge to be Tested

2.1: Specific Requirements

The contest will have a rubric scoring system. The overall score will be the sum of the points awarded for each component. Points are awarded as the competitor(s)/project successfully meets/completes certain performance criteria. Performance criteria are structured, when possible, to provide a range of tasks from easy to complex for each category.

Students will need to demonstrate blueprint reading ability (dimensions will be provided in metric – mm only). They will transfer the information from blueprint to project. They will layout, position, fit and tack weld components, welding with various processes, SMAW and GMAW. They will interpret and apply welding symbols. Lastly, they will clean the finished welds.

Competitors are expected to demonstrate:

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

Project must be fully tacked before proceeding with welding

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

**** THERE IS NO TALKING TO OR ASSISTING OTHER COMPETITORS****

** Drawings must be submitted to judges at the end of the competition**

Competitors may have points deducted or be disqualified at the Judges' and Technical Committee's discretion for breaking the rules.

3. Judging Criteria

Evaluation Scoring

Safety /10

- Safety glass worn at all times
- Gloves, Jacket and helmet worn while welding
- Steel toe boots worn at all times

GMAW

/30

- Correct position
- Correct appearance
- Are there any defects in the welds
- Weld size

SMAW

/30

- Correct position
- Correct appearance
- Are there any defects in the welds



- Weld size

Fitting/Layout **/20**

- Parts are in correct position
- Measurements on drawing were followed
- Welding prosses is in correct location
- Correct welding prosses is used in correct location
- Competitor shows clear understanding for weld symbols

Cleaning **/10**

- All spatter, slag, dust and dirt removed for part
- Welds are clean and easy to see
- Number of competitors is easy to read

Total: /100

Rule infractions will result in appropriate mark deductions at the discretion of the Technical Committee. Any disqualifications will be reviewed by the Director of Competitions.

A minimum score of 60% will be required to receive any ribbon or medal or to be eligible to advance to the Skills Ontario Qualifying Competition or the Skills Canada National Competition.

Teachers, parents and guardians are not allowed to speak with the competitors once the competition has begun. This will be strictly enforced by judges and QTC. There will be appropriate marks deductions or disqualification if this occurs.

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.

4. Equipment and Materials

4.1: Supplied by Competitor

- Combination square set
- File
- Tape measure or ruler (metric, millimeter's)
- Soap stone
- Scriber, pen, pencil
- Vise grip, clamps, magnets

2 - Large Bessey clamps

- Chipping hammer
- Wire brush
- Cold chisel
- Hammer
- Center punch
- Mig pliers, needle nose
- All safety equipment as outlined below in "Safety" section



4.2: Supplied by Competition

- All power sources, consumables, and test materials. All material will be cut to size.
- Materials will be 2" SCH 40 pipe & 1/4 plate, for practice.
- Pedestal grinder will be allowed for clean-up and joint prep
- Number stamps

5. Safety

5.1: PPE

- CSA approved eyewear worn during all activities (including side shields for prescription eyewear).
- CSA approved safety footwear must be worn
- Welding helmet (10 lens minimum and auto darkening helmets must be CSA approved)
- Welding gloves
- Speed lenses are permitted
- Proper shop attire is to be worn (no loose straps, baggy sleeves, etc...).
- No Jewelry such as rings, bracelets and necklaces, or any loose/hanging articles.
- Clothing worn by Competitors must be intended to protect the competitor against spatter, sparks, molten short duration flame, and radiant heat created by the welding processes.
- Clothing should be cotton, leather or meet the requirements of ISO 11611. Unless specially designed for welding, synthetic materials (e.g., nylon, polyester, rayon, spandex) must not be worn on the contest site.
- During all welding operations the competitor must wear a full-length leather welding jacket
- Competitors must wear flame resistant gauntlet gloves designed for the SMAW and GMAW welding processes. Gloves must provide electric shock prevention and prevent burns from hot sparks and to the hands and wrists. Gloves must not be wet, gloves saturated with sweat or otherwise wet, may be switched out to prevent electric shock.

Any items deemed unsafe by competition judges will not be permitted and shall be removed.

Competitors will not be permitted to compete until they have the needed safety equipment.

Competition judges will have final authority on matters of safety.