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1. General Contest Information

1.1: Purpose of Contest

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

- safety standards in accordance with Occupational Health and Safety Act (OHSA)
- milling machine operation to produce a component
- Engine lathe operation to produce a component

This contest is offered as an official contest. This contest is offered at the Skills Canada National Competition (SCNC) For WorldSkills Information, please visit the Skills Ontario website under Competitor Eligibility. Qualifying years for WorldSkills are on odd years at the Skills Canada National Competition, WorldSkills Competitions will occur on even years.

1.2: Objective/Description of event

Students will create a part using the metal lathe for half of the competition. They will create a second part using the milling machine for the second half of the competition. The group will be split up to accommodate machines.

1.3: Technical Committee

Chair: Brian Moelker moelkerb@limestone.on.ca

1.4: Contest Schedule

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

8:30 – 9:00	Sign into competition
9:00 – 9:15	Orientation
9:30 – 11:30	Competition
11:30 – 12:00	Lunch
12:00 – 3:00	Competition

*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 of the components. 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.

Competitors are expected to demonstrate:

- Reading drawings and job planning to produce a component in a timely fashion
- All phases of measurement will deal exclusively in imperial
- Must be able to machine using graduated collars on machine axis.

3. Judging Criteria

3.1: Rubric

Criteria	Possible Score
<u>Milling Project</u> Completed within tolerances stated on drawing. Any measurement outside of stated tolerance will receive a mark of zero	42
<u>Lathe Project</u> Completed within tolerances stated on drawing. Any measurement outside of stated tolerance will receive a mark of zero	42
Completion of both Mill and Lathe projects	10
<u>Health and Safety</u> Works in a safe manner Comes prepared ie. Safety shoes and eyewear	6
Total	100 (100%)

3.2: Tie Breakers

Tie breaker will be determined by judges discretion

4. Equipment and Materials

4.1: Supplied by Competitor

Competitors must bring their own toolboxes, containing the following tools:

- 6 - 8-inch vernier – digital, scale or dial
- 0 - 1 inch micrometer
- 1 - 2 inch micrometer
- Precision square



- Center gauge
- Dial indicator
- Tap handle
- Soft-faced hammer
- Edge finder
- Deburring tool
- 8 inch flat smooth file
- Plate protractor
- Parallels
- Thread Pitch Gauge
- Machinist Handbook
- Calculator
- 6 or 12 inch scale
- All general health and safety guidelines and protective equipment as noted in the Safety section
- Refillable water bottle
- Additional snacks (recommended peanut-free)
- Competitors must be dressed in a clean and appropriate manner with no logos other than that of their school/school board.
- Any PPE required as noted in the safety section of this scope

Media devices, such as cell phones, smart phones, mp3 players or PDAs are not permitted on the contest site.

4.2: Supplied by Competition

- All expendable tooling, including: all drills, taps, cutting tools and carbide inserts.
- Dust pan and hand broom/broom

4.4: Prohibited

List here

5. Safety

5.1: PPE

Safety is a priority at the Skills Ontario Competition. At the discretion of the Technical Committee, 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 Class 1 (impact) approved eyewear. *If a competitor has prescription eyewear, they may either:

- a) wear CSA approved eyewear (oversized) over top of their prescription eyewear, OR
- b) wear CSA approved prescription eyewear.



Prescription eyewear not CSA approved worn (everyday prescription eyewear) with side shields is not CSA approved for class 1 as being impact resistant and therefore one of the two options above must be followed.

2. It is mandatory for all competitors to wear CSA approved footwear. *

3. Jewelry such as rings, bracelets and necklaces or any items deemed unsafe by competition judges shall be removed. *

4. 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. *

*Competitors will not be permitted to compete until they have the needed safety equipment. Competition judges will have final authority on matters of safety.

Limestone Skills will no longer be supplying safety glasses.

5.2: Behaviors

5.3: Equipment Knowledge

Competitors must show competence in the use of tools and/or equipment outlined in this scope and can be removed at the discretion of the judges and technical chairs if they do not display tool and/or equipment competencies.