



**SCNC**  
**SKILLS CANADA**  
**NATIONAL**  
**COMPETITION**



**OCMT**  
**OLYMPIADES**  
**CANADIENNES**  
**DES MÉTIERS**  
**ET DES**  
**TECHNOLOGIES**



**SkillsCompétences**  
**Canada**  
Halifax2019

TEST PROJECT / PROJET D'ÉPREUVE

**WORKPLACE SAFETY**  
**SÉCURITÉ SUR LE**  
**LIEU DE TRAVAIL**

SECONDARY / NIVEAU SECONDAIRE



## Overview:

The purpose of this document is to provide competitors with the additional details of the three activities that make up the 2019 Workplace Safety National competition.

There are three activities in the Workplace Safety competition:

1. Hazard Identification
2. Hazard Control Search
3. Occupational Health and Safety (OHS) Research / Presentation

The activities have the following weight:

- |                                  |     |
|----------------------------------|-----|
| 1. Hazard Identification         | 38% |
| 2. Hazard Control Search         | 32% |
| 3. OHS Research and Presentation | 30% |

This document contains an outline of the expectation of each activity and how they will be scored.

Should competitors have further questions, they are encouraged to contact their Provincial / Territorial representative on the Workplace Safety National Technical Committee or alternatively either Chair Jennifer Wilson (NL) [jncwilson98@yahoo.com](mailto:jncwilson98@yahoo.com) or Co-Chair Brad Compton (SK) [bcompton@wcbsask.com](mailto:bcompton@wcbsask.com)

## Activity: Hazard Identification

Value: 38% of final mark

### Overview

- Each competitor will receive a mock workplace orientation prior to starting this activity.
- Each competitor will be provided with a Hazard Identification activity answer booklet.
- Competitors will be given sixty (60) consecutive minutes to complete this activity.
- The competitor must identify twelve (12) hazards (two (2) for each of the six (6) hazard categories i.e. physical, biological, chemical, ergonomic, safety, psychological). These will be found in the mock workplace which will be revealed at the time of the competition.
- There will be more than one competitor in the mock workplace at any one time.
- No electronic devices may be used for this activity.
- Competitors are required to wear long pants covering the ankle with their provincial / territorial competition shirt.

### How will competitors be marked?

For each hazard identified, the competitor will earn:

- Up to 1 marks for correctly identifying the hazard.
- Up to 1 mark for correctly explaining why it is a hazard, or “what could happen.”
- Up to 1 mark for correctly describing what must be done to control the hazard, thus preventing injury or illness.
- There will be one bonus question worth 2 marks

Example:



<p><b>What is the hazard?</b></p> <p>Use of a consumer food bottle for a chemical and not a proper WHMIS label.</p>	/1
<p><b>What could happen?</b></p> <p>Worker could mistake bottle, chemical could melt plastic.</p>	/1
<p><b>What needs to be done to control the hazard?</b></p> <p>Retrain workers on WHMIS and what information needs to be on a workplace label.</p> <p>Ensure proper containers are available to decant hazardous liquids into a proper container.</p>	/1

**What might competitors do to prepare for this activity?**

To prepare for this activity, competitors may wish to:

- Use this link [http://www.ccohs.com/oshanswers/hsprograms/hazard\\_risk.html](http://www.ccohs.com/oshanswers/hsprograms/hazard_risk.html) to check out “What are examples of hazards?” and “What types of hazards are there?”
- Use this link <http://www.ccohs.ca/oshanswers/prevention/effectiv.html> to check out “What type of hazards do we look for in a workplace?”
- Do an online search of “workplace hazards.”
- Talk to parents and other experienced workers about hazards in their workplaces.
- Talk to a member of the Occupational Health and Safety Committee at their school or workplace.

*Essential Skills –<sup>6</sup> Writing, <sup>7</sup>Thinking (Critical Thinking), <sup>8</sup>Document Use*

## Activity: Hazard Control Search

Value: 32% of final mark

### Overview

- Each competitor will be provided with a Hazard Control worksheet.
- Competitors will be given three (3) consecutive hours (180 minutes) to complete the hazard control activity.
- More than one competitor will be participating in the hazard control activity at any one time.
- The competitors will be escorted to observe four (4) competitions, pre-determined by the NTC.
- Judges will ensure that each competitor has their allotted time.
- Clipboards will be provided for use during this activity.
- Competitors are required to wear high visibility vests (provided), long pants covering the ankle with their provincial / territorial competition shirt.

### How will competitors be marked?

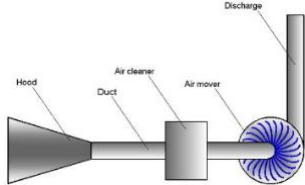
- Competitors will be marked on their ability to gather information on hazard control, as demonstrated in the written answers they provide in their worksheets.
- When collecting information on hazard control, competitors will be expected to use a combination of observing and asking questions, always be respectful of the fact that a competition is going on, and that distractions to the contest competitors will not be permitted. Observation must be done from outside the competition site.
- Marks will be awarded on the completeness of their answers, as follows:

#	Question	Maximum marks
1	What are four (4) hazards associated with this type of work?	2
2	What are three (3) controls you observed at this competition site?	1.5
3	Provide a detailed written description of one of the controls you observed, explaining how it works to control the hazard.	1.5
4	Provide a detailed diagram of the control described in Question 3.	1.5
5	Which type of hazard control is described in Questions 3 and 4? Is it Engineering, Administrative or PPE?	0.5

6	List two (2) challenges associated with the hazard control described in Questions 3, 4, and 5.	1
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### Example

Competition site observed is Welding.

#	Question	Answer	Maximum Marks
1	What are four (4) hazards associated with this type of work?	Ergonomic (MSI), exposure to UV light, toxic fumes and gases, heat / fire	2
2	What are three (3) controls you observed at this competition site?	Local exhaust ventilation, PPE, appropriate rest/breaks	1.5
3	Provide a detailed written description of one of the controls you observed, explaining how it works to control the hazard.	Local exhaust ventilation captures contaminants at, or very near, the source and exhaust to the outside. It is used to provide a continuous supply of fresh outside air. It can maintain temperature and humidity at a comfortable level, reduces potential fire or explosion hazards, and removes or dilutes airborne contaminants. This system consists of a hood (also known as the air intake area), duct work that is used to move air from one area to another, an air cleaner, and air mover (or fan) to bring in outside clean and exhaust the indoor contaminate air, and a discharge stack to exhaust the contaminated air.	1.5
4	Provide a detailed diagram of the control described in Question 3.		1.5
5	Which type of hazard control is described in Questions 3 and 4? Is it Engineering, Administrative or PPE?	Engineering	0.5
6	List two (2) challenges associated with the hazard control described in Questions 3, 4, and 5.	Preventative maintenance, Effectiveness of the air flow	1

**What might competitors do to prepare for this activity?**

To prepare for this activity, competitors may wish to:

- Use this link [http://www.ccohs.com/oshanswers/hsprograms/hazard\\_risk.html](http://www.ccohs.com/oshanswers/hsprograms/hazard_risk.html) to check out “What are examples of hazards?” and “What types of hazards are there?”
- Use this link <http://www.ccohs.ca/oshanswers/prevention/effectiv.html> to check out “What type of hazards do we look for in a workplace?”
- Use this link [http://www.ccohs.ca/oshanswers/hsprograms/hazard\\_control.html](http://www.ccohs.ca/oshanswers/hsprograms/hazard_control.html) to check out “What is a hazard control program?”, “What are the main ways to control a hazard?”, and “What are some of examples of these controls?”
- Do an online search of “workplace hazards” and “workplace controls.”
- Talk to parents and other experienced workers about hazards in their workplaces.
- Talk to a member of the Occupational Health and Safety Committee at their school or workplace.

*Essential Skills –<sup>2</sup> Oral Communication, <sup>6</sup> Writing, <sup>7</sup> Thinking (Critical Thinking), <sup>8</sup> Document Use*

Activity: OHS Research / Presentation

Value: 30% of final mark

### Overview

One method of communicating health and safety information is through presentations. For this activity the competitors will **be assigned a scenario involving an OHS issue.** Competitors will research and develop recommendations which will be presented to the judges who will represent a workplace employer. The competitors will perform the role of OHS professionals.

Please note: no presentation software will be used. Laptops/tablets will only be used for research and preparation of the recommendations.

This activity has two parts:

- Part 1. 2.5 hours (150 consecutive minutes) to research their assigned scenario and develop recommendations to be discussed with the employer.
- Part 2. 2 hours allowed for presentations of the recommendations

Each competitor will be allowed to set up / prepare prior to their presentation. Electronic devices are required for this activity – competitor's may use their own tablets / laptops to research and develop the recommendations. Headphones are permitted. Each competitor will be provided with the template at the time of the activity. Competitors will be using their own laptop/tablet to research their recommendations. Refer to the Contest Description - section 4.2 Equipment provided by competitor for more information.

### Scoring

- |                     |          |
|---------------------|----------|
| 1. Research/Content | 15 marks |
| 2. Presentation     | 15 marks |

Total 30 marks

- Each competitor will deliver a 5 minute presentation that has been researched and prepared on site, and delivered orally.
- The order of presentation will be assigned by random draw at the time of the presentations.
- Competitors will be judged on how well they organize and communicate the key points . Both content and delivery will be scored.