



Project / Projet

Workplace Safety

Sécurité sur le lieu de travail

Skill / Métier 92



SCNC / OCMT
2020
VANCOUVER

1 INTRODUCTION

There are three activities in the Workplace Safety competition:

- Hazard Identification
- Hazard Control Search
- Occupational Health and Safety (OHS) Research / Presentation

1.1 The purpose of this document is to provide competitors with the additional details of the three activities that make up the 2020 Workplace Safety National competition.

1.2 The activities have the following weight for scoring:

1. Hazard Identification 38%
2. Hazard Control Search 32%
3. OHS Research/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 either Chair Brad Compton (SK) bcompton@wcbsask.com or Co-Chair Craig Skelly (AB) craigskelly@telus.net.

2 Activity: Hazard Identification

Value: 38% of final mark

2.1 Overview

- Prior to starting this activity, each competitor will receive an orientation to the mock workplace.
- Each competitor will be provided with a Hazard Identification answer booklet.
- Competitors will be given sixty (60) consecutive minutes to complete this activity.
- 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, closed toed shoes and their provincial / territorial competition shirt.

2.2 How will competitors be marked?

For this activity, the competitors will be asked to:

- Identify 12 hazards [two (2) for each of the six (6) hazard categories (i.e. physical, biological, chemical, ergonomic, safety, psychological)],
- For each hazard, identify the potential harm, how the hazard could be controlled and what type of control it is,
- Identify two (2) well-implemented control measures, and
- Record their findings on the hazard identification answer sheet 8



Example:



<p>What is the hazard?</p> <p>Use of a consumer food bottle for a chemical, and no proper WHMIS label.</p>	<p>/1</p>
<p>What is the hazard category?</p> <p>Chemical</p>	<p>/1.5</p>
<p>What harm could result from this hazard?</p> <p>The worker could mistake the contents of the bottle for something less harmful than it is, not take the necessary precautions, and suffer harmful effects (skin irritation, burns, poisoning) from exposure to contents.</p>	<p>/1.5</p>

Provide a recommendation on the best control type.	
Substitution. It is my recommendation that the bottle be removed from the workplace and replaced with a proper storage bottle that is clearly identified and includes WHMIS information. Purchase proper container.	/1

2.3 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 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 a member of the Occupational Health and Safety Committee at their school or workplace.
- Seek further information on hazard controls:
https://www.ccohs.ca/products/posters/longdesc/hazard_control.html

Essential Skills – ⁷Thinking (Critical Thinking), ⁸Document Use

3 Activity: Hazard Control Search

Value: 32% of final mark

3.1 Overview

- Each competitor will be provided with a Hazard Control worksheet, and clipboard.
- Competitors will be given three and a half (3.5) consecutive hours (210 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 a variety of competition areas, pre-determined by the NTC.
- Competitors are required to wear high visibility vests (provided) and long pants covering the ankle.

3.2 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 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.
- On each site visited, competitors will be assigned **one control** (chosen by NTC)
- Based on the control assigned, competitors will be asked to identify the potential hazards, and identify and describe controls implemented to address this hazard and complete a risk analysis.
- Competitors will then take this information and develop a safe work procedure on one of the sites observed to control both hazards and risks at the competition site.

3.3 This activity has two components:

1. Observation of a variety of competition sites
2. Completion of the Hazard Control worksheets⁸

Competitors will observe the competition and collect information which they will use to provide written answers to a series of questions found on the Hazard Control worksheet

3.3.1 Questions may cover such areas as:

- Hazards associated with the work done at a competition site
- The nature of hazard controls observed (Elimination/Substitution, Engineering control, Administrative control, or PPE)
- A description of the control (using words and diagrams) 5,8
- Challenges associated with implementing controls

3.4 Scoring break down looks like this:

#	Question	Maximum marks
1	Hazards associated with the work done at a competition site	2
2	The nature of hazard controls observed (Elimination/Substitution, Engineering control, Administrative control, or PPE)	2

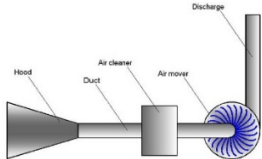
3	A description of the control (using words and diagrams)	2
4	Challenges associated with implementing controls	2

5	Complete a risk ranking using a Risk Matrix (provided).		1
6	Create Safe Work Procedure for one control observed		2

Example

Competition site observed is Welding – Local exhaust ventilation.

#	Question	Answer	Maximum Marks
1	Hazards associated with the work done at a competition site	Ergonomic (MSI), exposure to UV light, toxic fumes and gases, heat / fire	1
2	The nature of hazard controls observed (Elimination/Substitution, Engineering control, Administrative control, or PPE)	Elimination/Substitution, Engineering control	1

3			
	<p>A description of the control (using words and diagrams)</p>	<p>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.</p> 	2
4	Challenges associated with implementing controls	<p>Cost, employee buy-in and compliance, could change flow of work/time it takes to complete task</p>	1

5	Complete a risk ranking using a Risk Matrix (provided).	<i>High</i>	1
6	Create Safe Work Procedure for one control observed	1. Prior to turning on welder, flip switch for ventilator on 2. Place the hood as close as practical to welding area 3. When welding position or location changes, move the hood/ ventilator to capture gases and fumes. 4. When finished welding, turn ventilator off.	2

3.5 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 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 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.
- For information on Risk assessment/risk ranking, see: https://www.ccohs.ca/oshanswers/hsprograms/risk_assessment.html
- Info on Safe Work Procedures: <https://www.ccohs.ca/oshanswers/hsprograms/basic.html>

Essential Skills –⁷Thinking (Critical Thinking), ⁸Document Use

4 Activity: OHS Research / Presentation

Value: 30% of final mark

4.1 Overview

One method of communicating health and safety information is through oral communication and 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.

4.1.1 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 (5 mins per competitor)

4.2

- Electronic devices are required for this activity – competitors must use their own tablets / laptops to research and develop the recommendations. Headphones are permitted.
- At the outset of this activity, each competitor will be provided with a template to be completed and turned in prior to their presentation..
- Each competitor will be allowed time to set up / prepare prior to their presentation

4.3 Scoring

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

- Competitors will be assigned a scenario involving an OHS issue. Competitors will research and develop recommendations which will be presented to the judges.

- Each competitor will represent themselves as an OHS professional to a panel of judges acting as an employer.
- The participant will provide a brief overview of their research and provide a recommendation to the employer to correct the hazard.
- Each competitor will deliver a 5 minute presentation that has been researched and prepared on site, and delivered orally.
Following the 5 minute presentation participants shall be prepared to justify decisions and benefits to the employer. This will involve responding to questions from the panel of judges
- 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.



ORAL COMMUNICATION



THINKING