

DATE Wednesday, April 21 2021	LOCATION Virtual
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Schedule

Wed, April 21 2021	
Time	Task
9:00am – 9:30am	Orientation
9:30am-11:30am	Hazard Identification and Control in the virtual 360 workplace
11:30am-12:30pm	Lunch
12:30-2:30pm	Workplace Safety Presentation - facilitating a prepared presentation to co-competitors. (Google Meet)
2:30-3:00pm	Competition wrap-up meeting

1 Purpose of the Contest

To assess competitors' understanding of Occupational Health and Safety (OHS) and ability to perform OHS-related duties, including identifying hazards and recommending corrective action, displaying an understanding of hazard control, and effectively communicating OHS information.

Allotments will be determined by the end of March.

2 Criteria

The competition consists of two (2) activities:

- Hazard Identification and Control inspecting a virtual workplace;
- OHS Presentation - preparing and delivering an OHS presentation to co- competitors.

2.1 Skills & Knowledge to be Tested

2.1.1 Core knowledge of OHS principles. Ability to:

- Identify and assess workplace hazards, and recommend corrective action;
- Recognize and discuss hazard controls;
- Effectively communicate OHS information.

Prerequisites

2.1.2 Contest Specific Prerequisites

- Knowledge of WHMIS, Lockout Tag out, Fire Safety, the Occupational Health and Safety Act and regulations of the Province of Nova Scotia is an asset
- Review of Hazard Assessment methodology at www.ccohs.ca is an asset

2.1.3 SCNS Prerequisites

- Attend a public or private secondary institute;
- Be between 13 and 21 years of age on January 1 of the year of the Competition;
- Have been earning junior or senior high school credits any time during the current academic year (September to June);
- Be registered as a competitor with Skills Canada – Nova Scotia;
- Possess a Canadian citizenship or landed immigrant status and be a resident of Nova Scotia. Competitors are responsible for verifying this information if requested;
- Have completed and submitted a signed release form by a parent or guardian, if under the age of 19.

2.2 Equipment & Clothing NA

What Competitors Must Supply

- Computer and software to access virtual platform

3 Evaluation & Judging Criteria

3.1 Point Breakdown /100

Hazard Identification and controls 50

OHS Presentation 50

Ties are not permitted. In the event of a tie for medal standings, the tie will be broken in the following order:

Hazard Identification and Control Score

Presentation Score

3.2 Additional Information

Please contact Provincial Technical Committee (PTC) for questions and support:

3.2.1 PTC Contact Information

Name	Employer	Email
Andrew Church	NSCC Akerley Campus	Andrew.church@nsc.ca
Robin Angel	Nova Scotia Department of Justice, Corrections	Robin.Angel@novascotia.ca

4 Please see following pages for ‘Details Document’

4.1 Details Document

The purpose of this document is to provide competitors with the additional details they may need in order to prepare for the competition. Should competitors have further questions, they are welcome to contact the Provincial Technical Committee Members (PTC):

Andrew Church Andrew.Church@nsc.ca
 Robin Angel Robin.Angel@novascotia.ca

4.2 Hazard Identification and Controls

0900-1200 50%

What are the components of this activity?

4.3 A virtual workplace set up to simulate a workplace, or several different work activities
 List of documents produced and timeline for when competitors have online access to the documents.

4.4 Tasks that will be performed during the contest.

Hazard Identification and Controls (Worth 50%)

A fundamental principle of Occupational Health and Safety is recognizing, assessing and controlling hazards in the workplace.

The Hazard Identification and Control activity requires the competitor to demonstrate these skills by assessing, and suggesting controls for, hazards they identify in a workplace, made available to them through a video recording. For this activity, the competitors will be asked to:

Identify the hazards, and for each

- Define the hazard type (physical, biological, chemical, ergonomic, safety, psychological),
- Suggest the best type of control (elimination, substitution, engineering, administrative, PPE)
- Identify controls already in use
- Indicate the potential hazards the controls are meant to mitigate
- Record all findings on the online hazard identification answer sheet

4.4.1 What are competitors required to do for this activity?

- Each competitor will be given a brief orientation to the virtual workplace, and to complete the activity;
- Each competitor will have 3 hours to complete the activity
- Each competitor will identify multiple hazards and controls, and complete a hazard identification table, such as the one shown below:

Identified Hazard	What could happen?	What needs to be done to control the Hazard?
Tool with frayed electrical cord	Worker could get electrocuted	Cord needs to be removed from service and replaced with properly maintained tool
Poor housekeeping in shop Excessive sawdust on floor	Worker could slip, and fall into path of tools in operation. Worker could be injured by the fall or by the tool they may be exposed to.	Sawdust needs to be swept up, and shop tidied regularly

4.4.2 How will competitors be marked?

For each hazard identified, the competitor will earn:

- Up to one (1) mark (for a potential of 10 marks) for correctly explaining why it is a hazard, or “What could happen.”
- Up to two (2) marks (for a potential of 30 marks) for correctly describing, “What needs to be done to control the hazard,” Thus preventing injury.”

4.4.3 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 parents and other experienced workers about hazards in their workplaces.
- Talk to a member of the Joint Occupational Health and Safety Committee at their school or workplace.

4.5 Hazards and Controls

4.5.1 What are the components of this activity?

- The opportunity to review a virtual platform;
- Self-directed gather information on hazards and controls;
- Information gathering through observation,
- Evaluation of information in order to complete assigned questions;
- Completion of assigned questions.

4.5.2 What are competitors required to do for this activity?

- Competitors are to report to Workplace Safety virtual classroom at assigned time; Competitors will be given a brief orientation to activity and virtual booklet to completed and be submitted at the end of the time slot;
- Competitors will use electronic software record both initial information gathered (notes, lists, diagrams, etc.), as well as final responses to questions;
- Competitors will manage their own time in this activity and record their information
- From the virtual competition will the assigned questions. Questions will be similar to those shown below:
 - What hazards are associated with this type of work?
 - What controls have you observed in place at this competition site?
 - Briefly describe one of the controls in place, explaining how it works to control the hazard.
 - Provide a detailed description (written and **diagram**) of one of the controls observed.
 - Which type of hazard control is represented by the one described above – elimination / substitution, engineering control, administrative control, or PPE?

4.5.3 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;
- Marks will be awarded on the completeness of their answers, as follows:

Question	Potential Score	Actual Score
What hazards are associated with this type of work?	10	
What controls have you observed in the virtual competition site?	10	
Briefly describe one of the controls in place, explaining how it works to control the hazard.	10	
Provide a detailed description (written and diagram) of one of the controls observed.	10	
Which type of hazard control is represented by the one described above – elimination/substitution, engineering control, administrative control, or PPE?	10	
Total	50	

4.5.4 What might competitors do to prepare for this activity?

To prepare for this activity competitors may wish to learn about hazard control by exploring some of the recognized OHS websites. Such websites include (but are not limited to):

- Provincial / territorial regulatory bodies (Ministries of Labour); look for websites that host interactive “Spot the hazard” activities;
 - Provincial / territorial workers compensation boards - www.awcbc.ca look for websites that host interactive “Spot the hazard” activities;
- Canadian Centre for Occupational Health and Safety – www.ccohs.ca or http://www.ccohs.com/oshanswers/hsprograms/hazard_risk.html
- Canadian Society of Safety Engineering – www.csse.org
- Associations for specific occupations (construction associations, electrical associations, etc.)

5 OHS Presentation and written report (50%)

Prepare a safety presentation prior to the competition

5.1 Research of an OHS topic.

The topic for 2021 competition is 'The Impacts of Innovation in Technology on Workplace Health and Safety'.

Innovation in technology impacts the health and safety of workers in various workplaces in Nova Scotia. Evolving technology such as ergonomic designs, robotics, wearable technology etc. can reduce hazards and improve workplace safety.

Consider the following in your presentation:

- What are the statistics associated with injuries and hazards specific to the creation of innovative in technology in Nova Scotia and in Canada? Look at the most recent 5 years. Is there a trend?
- What are hazards have been removed and/or reduced?
- What are the up and coming initiatives that may prevent fatalities, injuries and property loss?

5.2 Develop of a dynamic and informative 10-minute presentation

Deliver information in an effective and engaging manner:

- Competitors will research the topic online and provide their sources to the judges;
- Competitors will develop a ten-minute presentation around the assigned topic of 'Innovation in Technology Impact on Workplace Safety,' using a format of their choice:
 - Electronic (PowerPoint, Prezi, etc.);
 - Spoken, with hand-written / drawn visual aids;
 - A combination of electronic and hand-written / drawn visuals;
- At their scheduled time, each competitor will deliver their ten-minute presentation in front of judges and other competitors.
- Presentations should include a brief introduction, content around assigned topic and a conclusion. *See 'Presentation Scoring Guide'* below

5.3 How will competitors be marked?

Please see 'Presentation Scoring Guide' below for specifics.

- Competitors will be marked on how they make use of time given for researching the topic and preparing the presentation;
- Competitors will be marked on the structure and content of the presentation they develop;
- Competitors will be marked on how well they are able to communicate the information they have prepared.

5.4 Presentation Scoring Guide

Marking Criteria	Potential Score	Actual Score
<p>Engagement with process Provided website sources to the judges</p> <p>Integrity of Content Judges will verify the content of the presentation by looking at the websites provided</p> <p>Sources used Did competitor consult at least two reputable sources</p>	10	
<p>Format used Was the format chosen for the presentation appropriate</p> <p>Organization of Content Did the competitor make good choices about what key points to presentation Was there a logical sequence around presentation of key points</p> <p>Visuals Did visuals reflect care and attention Were visuals attractive and effective</p>	10	
<p>Introduction Did the competitor engage the audience right from the start with a dynamic introduction</p>	15	
<p>Delivery of key points Did the competitor act with professionalism engage with the audience effectively communicate key points</p>	10	

and project well		
Conclusion Did the competitor leave audience with a sense of closure	5	
Total	50	0

5.5 What might competitors do to prepare for this activity?

To prepare for this activity competitors may wish to:

- Practice developing short presentations on a variety of topics in order to choose the format with which they feel most comfortable;
- Practice carrying out online searches of various topics / terms and explore some of the recognized OHS websites. Such websites include (but are not limited to):
 - Provincial / territorial regulatory bodies (Ministries of Labour);
 - Provincial / territorial worker’s compensation boards – www.awcbc.ca
 - Canadian Centre for Occupational Health and Safety – www.ccohs.ca
 - Canadian Society of Safety Engineering – www.csse.org
 - American Society of Safety Professionals - <https://www.assp.org/>
 - National Research Council - <https://nrc.canada.ca/en>
 - EHS Today - <https://www.ehstoday.com/>
 - The Next Web - <https://thenextweb.com/ca/>
 - The Centre for Health and Safety Innovation - <http://www.tchsi.ca/>