

2019 PROVINCIAL SKILLS CANADA COMPETITION



DETAILS DOCUMENT

Edmonton Expo Centre, Edmonton
May 8 and 9, 2019

EVENT: Workplace Safety	LEVEL: Secondary
WORLDSKILLS TRADE #: 92	LOCATION: HALL B, Edmonton Expo Centre, Edmonton
EQUIPMENT SET UP AND TESTING: MAY 7: 7:30PM – 8:30PM PLEASE SEE THE "ADDITIONAL INFORMATION" SECTION AT THE END OF THE CONTEST DESCRIPTION DOCUMENT FOR MORE INFO.	REGIONALIZED: No
COMPETITION SCHEDULE: Orientation: 8:00am Competition: 9:00am	

1) Hazard Identification

(1 Hr - worth 36 %)

What are the components of this activity?

- A mock workplace set up to simulate a workplace, or several different work activities within a workplace
- Hazard identification (sometimes referred to as a workplace inspection) of a mock workplace
- Competitor access to the mock workplace only at their scheduled time
- Identification of hazards that are physical, chemical, biological, or ergonomic in nature
- Identification of hazards that may include such aspects as housekeeping, hazardous materials, personal protective equipment, unsafe equipment, first-aid, and signage
- Completion of a table naming the hazard, describing the potential injury associated with the hazard, and suggesting the appropriate corrective action

What are competitors required to do for this activity?

- Each competitor will be given a brief orientation to the mock workplace, and to the activity.
- Each competitor will have a set time slot in which to do their hazard identification.
- Each competitor will be given a clipboard and pen and will be asked to complete a hazard identification table.

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- Once oriented to the activity, each competitor will be given 1hr to complete their inspection of the mock workplace, and to complete the hazard identification table.
- Each competitor will identify **multiple hazards** 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

How will competitors be marked?

For each hazard identified, the competitor will earn:

- Up to 1 mark (for a potential of 12 marks) for correctly explaining why it is a hazard, or ***“what could happen.”***
- Up to 2 marks (for a potential of 24 marks) for correctly describing ***“what needs to be done to control the hazard,”*** thus preventing injury.

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.

(2) Hazard Control Search

(3 hours – worth 32 %)

Observing people at work and identifying hazards is one skill used by the Health and Safety professional to assist in reducing / eliminating injury / illness in the workplace.

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For this activity competitors will observe selected competitions and find hazard controls that have been implemented for that competition.

Competitors will be escorted by a judge and observe 4 competitions, predetermined by the Provincial Technical Committee (PTC). The competitions selected will be revealed at the time of the activity orientation.

This activity has two components:

1. Observation of four competitions
2. Completion of the Hazard Control worksheets

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.

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)
- Challenges associated with implementing controls

Competitors will have 3 hours to complete this activity. (2.5 hours for data collection while touring the 4 competition sites and 30 minutes to compile their findings into a booklet provided by the committee).

Competitors will be escorted in groups by a PTC member to each competition site; however, competitors will complete this activity individually.

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.

What are the components of this activity?

- Information gathering through observation, listening, and asking questions
- Tour of 4 competition areas at the Provincial Skills Canada Competition
- Evaluation of information in order to complete assigned questions
- Completion of assigned questions

What are competitors required to do for this activity?

- Competitors are to report to Workplace Safety site at assigned time.

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- Competitors will be given an orientation to the activity and a booklet to be completed and handed in by end of 3-hour time slot.
- Competitors will observe, listen, take notes, and ask questions (their own questions) in order to gather information on hazard control.
- Competitors will use booklets to record both initial information gathered (notes, lists, diagrams, etc.), as well as final responses to questions.
- Competitors will have 3 hours to complete this activity. (2.5 hours for data collection while touring the 4 competition sites and 30 minutes to compile their findings into a booklet provided by the committee).

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 booklets.
- Marks will be awarded on the completeness of their answers, as follows:

	Question	Potential Score (for each site)	
1	What are 6 hazards are associated with this type of work?	3	
2	What are 6 controls you observed at this competition site?	3	
3	Provide a detailed written description of one of the controls you observed, explaining how it works to control the hazard.	1	
4	In relation to your answer for question #3, Which type of hazard control is it? Is it Engineering, Administrative or PPE?	1	
		Sub Total	8
			X 4 sites
		TOTAL	32

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 which host interactive “Spot the hazard” activities
 - Provincial/territorial workers compensation boards - <https://www.wcb.ab.ca/> ; look for websites which host interactive “Spot the hazard” activities
- Canadian Centre for Occupational Health and Safety – www.ccohs.com
 - 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.)

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(3) OHS Presentation

(2.5 hours – worth 32 %)

What are the components of this activity?

- Research of an OHS topic (assigned by random draw at the competition) to determine key information to be communicated
- Development of a dynamic and informative five-minute presentation
- Delivery of information in an effective and engaging manner

What are competitors required to do for this part of the competition?

- Competitors will be assigned one of four topics by random draw at the competition. Some examples of previous topics include: Ergonomics in the workplace, Working at heights, Proper selection of PPE for your work environment
- Competitors will do a brief internet search of topic, outlining key points to be communicated (bearing in mind that the length of time they will have for their presentation is only 5 minutes).
- Competitors will develop a five-minute presentation around their topic, using a format of their choice:
 - electronic (Power Point, Prezi, etc)
 - spoken, with hand-written/drawn visual aids
 - a combination of electronic and hand-written/drawn visuals
- Competitors are required to bring their own Laptop Computer with the required software that the competitors want to use for their OHS Research/Presentation that is also capable of connecting to the internet onsite.
- Art supplies (felt pens, bristol board, glue sticks, etc.) will also be made available for competitor use.
- At their scheduled time, each competitor will deliver their five-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.
- Competitors are required to indicate the “reference source” of the material used at the end of their presentation.

How will competitors be marked?

- Competitors will be marked on how they make use of time given for researching the topic and preparing the presentation (see **Presentation Scoring Guide, Research** for specifics).
- Competitors will be marked on the structure and content of the presentation they develop (see **Presentation Scoring Guide, Presentation** for specifics).
- Competitors will be marked on how well they are able to communicate the information they have prepared (see **Presentation Scoring Guide, Delivery** for specifics).

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Presentation Scoring Guide

	Marking Criteria	Potential score
Research	Engagement with process <ul style="list-style-type: none"> Did competitor demonstrate interest and enthusiasm for research process? 	2
	Time management <ul style="list-style-type: none"> Did competitor make good use of work time? Was the competitor able to satisfactorily complete assignment in time given? 	4
	Sources used <ul style="list-style-type: none"> Did competitor consult at least two reputable sources? 	4
Presentation	Format used <ul style="list-style-type: none"> Was the format chosen for the presentation appropriate? 	2
	Organization of Content <ul style="list-style-type: none"> Did the competitor make good choices about what key points to include in presentation? Was there a logical sequence around presentation of key points? 	4
	Visuals <ul style="list-style-type: none"> Did visuals reflect care and attention? Were visuals attractive and effective? 	4
Delivery	Introduction <ul style="list-style-type: none"> Did the competitor engage the audience right from the start with a dynamic introduction? 	2
	Delivery of key points <ul style="list-style-type: none"> Did the competitor: <ul style="list-style-type: none"> act with professionalism, engage with the audience, effectively communicate key points, and project well? 	8
	Conclusion <ul style="list-style-type: none"> Did the competitor leave audience with a sense of closure? 	2
	Total	32

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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 workers compensation boards – www.awcbc.ca
 - Canadian Centre for Occupational Health and Safety – www.ccohs.ca
 - Canadian Society of Safety Engineering – www.csse.org
 - Associations for specific occupations (construction associations, electrical associations, etc.)

Important Note: At the Skills Canada National Competition competitors will not be allowed to use visual aids (posters, pictures, diagrams) or a power point presentation prepared onsite. At the national level of competition, this portion of the event is designed to simulate a “Tool Box” talk and competitors are required to develop a tool box talk using the template that will be provided, prepare a 5-minute oral presentation on the tool box talk and then present the tool box talk to a panel of judges so that it simulates a supervisor or OHS professional conducting a tool box talk to a group of employees.