



Contest Description

Edmonton Expo Centre, Edmonton

May 8 & 9, 2024

EVENT: Workplace Safety	LEVEL: Secondary
WORLDSKILLS TRADE #: 92	LOCATION: HALL C, Edmonton Expo Centre, Edmonton
EQUIPMENT DROP OFF, SET-UP AND TESTING MAY 7: 4:00PM – 5:30PM	REGIONALIZED: No
COMPETITION SCHEDULE: MAY 8: Orientation: 8:00 am Competition: 8:30 am – 4:30 pm	
MAY 9: Competition: 8:00 am – 4:30 pm	

Please Note: This document is subject to change as competition information is updated. Competitors are responsible for staying up to date with the most recent information. Check the footer for last updated date. Changes will be highlighted in yellow.

CONTEST INTRODUCTION

Purpose of Challenge

To assess competitors' understanding of Occupational Health and Safety (OHS) principles, application, and performance of OHS-related duties including:

- Identify hazards and recommend corrective action
- Displaying and understanding of hazard control
- Effectively communicate OHS information

Duration of Contest

Three activities over the two-day competition (each day to start at 8:00 am and end by 4:30 pm)

The three activities are:

1. Hazard Identification (inspecting a mock workplace)
2. Hazard Control Search (guided tour around select competition areas)
3. OHS Presentation (preparing and delivering an OHS presentation to judges)



At the competition orientation, each competitor will receive a schedule, indicating their time for each activity. Competitors are expected to follow the schedule and arrive on time. Failure by a competitor to attend the competition orientation or to arrive at their scheduled time for activities may result in a score deduction of 5 marks for each infraction.

SKILLS AND KNOWLEDGE TO BE TESTED

- Apply core knowledge of OHS principles
- Ability to identify and assess workplace hazards and to recommend corrective action
- Ability to recognize and discuss hazard controls
- Ability to effectively communicate and understand OHS information

RECOMMENDED COMPETITION PREPARATION

- To assist with competition preparedness, competitors are highly encouraged register for and complete the Construction Safety Training System (CSTS 2020) course offered free by the Alberta Construction Safety Association (ACSA). For information, visit: [CSTS 2020 - yourACSA.ca](https://www.acsa.ca/csts2020)

PROJECT DESCRIPTION

Tasks that will be performed during the contest:

1. Hazard Identification (1.5 Hrs. Worth 36%)

Each competitor will inspect a mock workplace that have several hazards or dangerous work habits.

Components of this activity include:

- Performing a workplace inspection.
- Identification of hazards that may include such aspects as housekeeping, hazardous materials, personal protective equipment, unsafe equipment, first-aid, and signage .
- Identification of hazards that are physical, chemical, biological, or ergonomic in nature.
- Completion of a table naming the hazard, identifying the classification of the hazard, describing the potential injury associated with the hazard, and suggesting 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 and asked to complete a hazard identification form.
- On each form, the competitor must identify the follow:
 - What is the hazard?
 - What type of hazard? (Classification e.g. Ergonomic)
 - What could happen?
 - What needs to be done to control the hazard?
- An example is shown below:

Identified Hazard	Hazard Classification	What could happen?	What needs to be done to control the hazard?
Tool with frayed electrical cord	Safety	Worker could get electrocuted	Cord needs to be removed from service and replaced with properly maintained tool
Unidentified bottle of liquid - Unknown substance	Chemical	Worker can improperly use chemical creating potential reaction or exposure	Workplace label required (WHMIS / GHS)

How will competitors be marked?

For each hazard identified, the competitor will earn:

- Up to 1 mark for identifying a hazard.
- Up to 1 mark for identifying the classification of that hazard.
- Up to 1 mark for explaining why it is a hazard, or “what could happen.”
- Up to 1 mark 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 https://www.ccohs.ca/oshanswers/hsprograms/hazard_risk.html to check out “What are examples of hazards?” and “What types of hazards are there?”
- Use this link <https://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 Health and Safety Committee at their school or workplace.
- Review the following examples of hazard classifications:

Hazard Classification	Example
Physical	Temperature, indoor air quality, mould, noise, radiation
Chemicals	Chemicals, WHMIS/GHS/SDS, leaking container, hazardous materials spill
Health	Biological, diseases, disorders, injuries, pandemics
Ergonomic	Lifting, pushing/pulling, lighting, office, sitting/standing, slips/trips/fall, shift work, tools, musculoskeletal disorders, awkward postures, repetitive motion
Psychosocial	Stress, Physical and Emotional violence/bullying
Safety	Driving, electrical, ladders, garages, ladders, machinery, material handling, tools, forklifts, platforms
Workplace	Confined spaces, indoor air quality, lasers, scents, temperature, ventilation, violence, weather, working alone

2. Hazard Control Search (3 Hrs. worth 32%)

Observing people at work and identifying hazards is one skill used by the Health and Safety professional to assist in reducing or eliminating injury / illness in the workplace. For this activity, competitors will observe selected competitions and find hazard controls that have been implemented for that competition.

Questions may cover such areas as:

- Identify a task being performed.
- A description of a control for that task.
- Type of control observed (Elimination / Substitution, Engineering, Administrative, or PPE).
- The hazard this control is mitigating.

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 the Hazard Control worksheets.

What are competitors required to do for this activity?

- Competitors are to report to Workplace Safety site at assigned time.
- 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 be escorted in groups by a Provincial Technical Committee (PTC) member to each competition site; however, competitors will complete this activity individually.



- Competitors will observe 4 competitions, predetermined by the Provincial Technical Committee (PTC). The competitions selected will be revealed at the time of the activity orientation.
- 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.
- Competitors will observe, listen, take notes, and ask questions (to their escort only) 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).
- When collecting information on hazard control, competitors will be expected to use a combination of observing and asking questions (to their escort), always respectful of the fact that a competition is going on, and that distractions to the contest competitors will not be permitted.
- **Note: Competitors are not allowed into competition areas or to engage with people in the competition area. All questions are to be directed to your respective escort.**

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 is the task being performed?	1	
2	Provide a description of a control in place for that task and the hazard this control is mitigating.	3	
3	Which type of control observed (Elimination / Substitution, Engineering, Administrative, or PPE)?	1	
		Sub Total	5
			x 3/site
			x 4 sites
		TOTAL	60

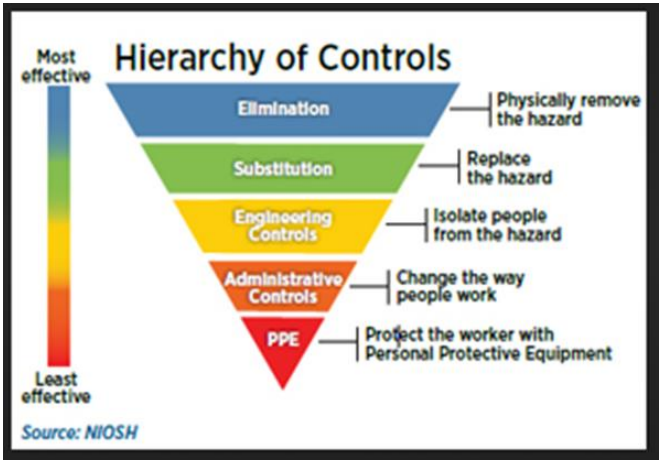
- An example is shown below:

#	Question
1	What is the task being performed? The individual is riding a bike.
2	Provide a description of a control in place for that task and the hazard this control is mitigating. The individual is wearing an approved helmet, thus preventing themselves from a head injury if they were to fall off the bike.
3	Which type of control observed (Elimination / Substitution, Engineering, Administrative, or PPE)? Type of control is Personal Protective Equipment (PPE)

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.ca
 - 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.)
- Review and understand the hierarchy of controls:



Control	Example
Elimination	Move loose stock, empty pallets or garbage from the operating area, good housekeeping, ergonomic hazard eliminated by using a forklift
Substitution	Safer route to travel on
Engineering	Ventilation, guards
Administrative	Training, posting signage, policies and procedures
Personal Protective Equipment (PPE)	Safety footwear, safety eyewear, dust masks, coveralls, hearing protection

3. OHS Research/Presentation (2.5 Hrs. worth 32%)

Each competitor will deliver a 5 minute OHS presentation, researched and prepared onsite, as part of the competition.

The presentation topics will be assigned on the day of competition. Competitors will be judged on how well they organize and communicate the key points of the topic assigned and will be scored on both content and delivery. Competitors are asked to use visual aids (posters, pictures, diagrams) or a power point presentation prepared onsite.

Components of this activity include:

- Research of an OHS related topic 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

This activity has two parts:

1. 2.5 hours (150 consecutive minutes) to research and develop the safety presentation.
2. 5 minutes allowed to deliver their presentation.

What are competitors required to do for this activity?

- Competitors will be assigned a safety topic on the day of competition. Some examples of previous topics include: Working at heights, Proper selection of PPE for your work environment, Ergonomics in the workplace, etc.
- Competitors will research the topic (i.e.: internet) outlining key points to be communicated
- Competitors will develop a five-minute presentation around their topic.
- Competitors may choose to incorporate the following formats within their presentation:
 - The use of presentation programs (Power Point, Prezi, etc.)
 - Presentation style (Visual, Freeform, Instructor, Coach, Storytelling, Connector, etc.)
 - Spoken, with hand-written/drawn visual aids (posters, pictures, diagrams, etc.)
 - A combination of the above



- Competitors are required to use their own devices with the required software that they want to use for their OHS Research/Presentation. **Note: For important information, please see the “Bring Your Own Device (BYOD) Information” Section below!**
- At their scheduled time, each competitor will deliver their five-minute presentation in front of judges.
- Presentations should include a brief introduction, content around chosen 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.

****Please 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.

How will competitors be marked?

- Competitors will be marked on how well they have researched their chosen topic.
- 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.

Presentation Scoring Guide

	Marking Criteria	Potential score
Research	Engagement <ul style="list-style-type: none"> Was the competitor enthusiastic? Voice – fast, slow – articulate, gestures, animated, volume 	2
	Time management <ul style="list-style-type: none"> Was the competitors' presentation 5 minutes? 1 point less than 2 minutes 2 points less than 3 minutes 3 points less than 4 minutes 4 points between 4 minutes and 6 minutes 3 points if greater than 6 minutes 	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? PPT, Stand Alone, Posters 	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? <ul style="list-style-type: none"> Intro Body Conclusion 	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 of themselves and the presentation? 	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 have a sense of closure of the presentation? 	2



	Total	32
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What might competitors do to prepare for this activity?

Competitors may wish to review OHS websites, including, but not limited to the following:

- Canadian Centre for Occupational Health and Safety www.ccohs.ca
- Canadian Society of Safety Engineering www.ccse.org
- Websites of provincial/territorial regulatory bodies www.alberta.ca
- Young worker provincial/territorial websites: Alberta Alis www.alis.alberta.ca
- Websites of provincial/territorial OHS associations and organizations
 - Alberta Association of Safety Partnerships (AASP) <https://www.aasp.ca/>
 - Alberta Construction Safety Association <http://www.youracsa.ca/>

EQUIPMENT & MATERIALS

Equipment and Materials Competitors Must Supply:

Laptop Computer with desired software to use for the OHS Research/Presentation

Bring Your Own Device (BYOD) Information

IMPORTANT: Competitors are required to bring their own device and software that meets or exceeds the stated requirements for their competition. Each competitor can choose their own device and software so their workflow and process is what they are familiar with. If competitors are bringing a computer or laptop from their school (instead of their personal computer), please ensure that the computer is unlocked allowing for USB sticks, documents and possibly software to be saved/installed to the hard drive and IT support can be properly provided onsite. This may require administrator privileges to access the CMOS settings. All USB sticks provided for competition use will be cleared and inspected prior to being used.

Note, computers must remain inside the competition area for the duration of the competition from the time the competition begins on Day 1 to when the competition ends on Day 2 (including overnight). Competitors may supply their own locking cables if they wish.

Equipment Set-Up and Testing for all event areas that are Bring Your Own Device will be held on Tuesday May 7, 2024, at 4:00pm (before opening ceremonies/registration).



Equipment Set-up and Testing (for BYOD events)

Before the Opening Ceremonies and registration, students who are competing in technology-based events that are a BYOD event will be given an opportunity to set up and test their equipment to ensure their equipment is fully functional and networked (where required) prior to the start of the competition. Only accredited students and educators will be permitted into the competition site for equipment drop off and testing. Students who miss the equipment and setup testing opportunity will need to set up their equipment AFTER the mandatory COMPETITOR ORIENTATION time on the day of competition. Any time that is required to set up and test their equipment on the competition day will be part of their overall competition time. The competition time for these competitors will NOT be extended.

Test Project change at the Competition

Where the Test Project has been circulated to Competitors in advance, PTC can change a maximum of 30% of the work content.

Equipment and Materials Supplied by the Committee:

Personal Protection Equipment, as needed for the competition.	Clip board and pens
Printer	USB sticks
Art Supplies (limited varieties) for OHS presentation	

JUDGING CRITERIA

Hazard Identification	36%
Hazard Control Search	32%
OHS Presentation	32%
Overall Total	100%

TIE BREAKING PROCESS

In the event of a tie, the competitor with the highest score in the Hazard Identification will be declared the winner. If a second tie occurs, the competitor with the highest score in the OHS Presentation will be declared the winner.

CLOTHING REQUIREMENT

It is important that competitors present a professional image and appearance. Appropriate clothing must be worn to compete. All clothing must be neat and clean and free of rips and tears. Casual wear such as shorts will not be permitted. Closed toed shoes must be worn. Competitor competition t-shirt must be worn.

Required Clothing by the Competitor:

Long pants covering the ankle	Provincial Competition t-shirt
Closed toed shoes	



SAFETY

The health, safety, and welfare of all individuals involved with Skills Canada Alberta are of vital importance. Safety is a condition of participation with Skills Canada Alberta and shall not be sacrificed for the sake of expediency. At the discretion of the judges and technical committees, any competitor can be denied the right to participate should they not have the required proper safety equipment and/or act in an unsafe manner that can cause harm to themselves or others.

ADDITIONAL INFORMATION

Skills Canada Alberta Regional and Provincial Rules and Regulations

[Regional and Provincial Rules and Regulations](#)

Competitor Registration

Registration for Provincial Skills Canada Competition (PSCC) will open online on January 17, 2024 @ 8:30 AM. Please refer to this competitions event page for additional registration and competition information:

<https://skillsalberta.com/competition/>

Test Project change at the Competition

Where the Test Project has been circulated to competitors in advance, PTC can change a maximum of 30% of the work content.

Lunch

Lunch for accredited competitors will be provided by Skills Canada Alberta.

Parking & Venue Maps: <http://edmontonexpocentre.com/attend/parking/>

Parking is FREE for all attendees.

Opening Ceremonies / Competitor Registration

Opening Ceremonies for the PSCC will take place on Tuesday May 7, 2024, at 6:00 pm in Hall D of the Edmonton EXPO Centre. Admission is free, and everyone is welcome to attend. It is important to note that competitor registration will open immediately following the Opening Ceremonies.

Awards Ceremony

The Awards Ceremony will take place on Thursday May 9, 2024, at 6:30 pm in Hall D of the Edmonton EXPO Centre. Admission is free and everyone is welcome to attend. The Awards Ceremony will be shown live at

<http://skillsalberta.com/>



Team Alberta Information

Team Alberta will be selected at the PSCC Awards Ceremony. Gold medalists will then be eligible to participate at the Skills Canada National Competition (SCNC) on May 27- June 1, 2024, in Quebec City, QC. It is recommended that competitors review the SCNC contest description to be familiar with the national contest description and project at <http://www.skillscanada.com/>.

During the PSCC Awards Ceremony on Thursday May 9, 2024, gold medalists will be given their Team Alberta information package and will confirm their participation in the SCNC. Students must be present at the Awards Ceremony to claim their position on Team Alberta. If the Gold medalist is not able to attend SCNC, the next top ranking individual will be asked to participate. If a student is not able to attend the Awards Ceremony a letter confirming the student's interest in Team Alberta participation must be emailed to javierad@skillsalberta.com prior to the start of competition on May 8, 2024.

Please prepare your students in advance to accept a position on Team Alberta and outline how your school will support their participation. Furthermore, it is very important that all fieldtrip/travel information for potential Team AB members is organized and completed prior to the selection of Team AB.

Questions?

Please contact Whitney Koop at whitneyk@skillsalberta.com if you have any questions regarding the Contest Description.

COMMITTEE MEMBERS

Craig Skelly	Nick Kladas	Marie Wiebe
Angela Skelly	Carole-Anne Chung	