



## 2023 Provincial Skills Canada Competition



### Contest Description

Edmonton Expo Centre, Edmonton

May 3 & May 4, 2023

<b>EVENT:</b> Sprinkler Systems Installer	<b>LEVEL:</b> Post -Secondary
<b>DURATION:</b> 12 hours (two days)	<b>LOCATION:</b> HALL A, Edmonton Expo Centre, Edmonton
<b>COMPETITION SCHEDULE:</b>	
<b>May 3:</b>	
<i>ORIENTATION/ COMPETITION</i>	7:30AM
BREAK	9:30AM – 9:45AM
LUNCH	12:00PM – 1:00PM
BREAK	2:30PM – 2:45PM
COMPETITION	2:45PM - 4:00PM
<b>May 4:</b>	
<i>ORIENTATION/ COMPETITION</i>	8:00AM
BREAK	9:30AM – 9:45AM
LUNCH	12:00PM - 1:00PM
BREAK	2:30PM - 2:45PM

### CONTEST INTRODUCTION

#### Purpose of the Challenge:

To assess the contestant's knowledge and skills in the fabrication and installation of a fire sprinkler system and components with high regard to the aspects of quality of workmanship proficiency of piping/system component installation and accuracy of work within a specified time frame.

#### Skills and Knowledge to be tested:

- Applying mathematical concepts involving planning, measuring, layout, and installation of a piping system.
- Interpretation and application of blueprint specifications.
- Assembling and fabricating a piping system
  - measure, cut, and fabricate steel pipe and fittings
  - use tools & equipment to join pipe, fittings, and system components
  - applying safe work practices and strong positive work ethic



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### CONTEST DESCRIPTION

This year's competition will be a two-part competition which will demonstrate the necessary skills required in the Sprinkler trade. Part 1 Install Dry Pipe Valve, Part 2 Install branch lines and arm overs.

The Sprinkler-Fitter apprentice competitor will be responsible to install a Dry Pipe Valve (DPV), using the proper trim in the appropriate places. Once the DPV is installed with the appropriate trim, the competitor will install a sprinkler system including mains, branch lines and sprinkler arm over drops.

Tasks that may be performed during the contest

- Applying mathematical concepts involving offsets.
- Interpreting and applying the blueprint specifications
- Assembly of various pipe and fitting systems
  - Carbon steel threaded / bolted
  - Pipe Fabrication
  - CPVC solvent
  - Copper soldering
- Apply safe work practices
- All dimensions will be taken from the designated centerline or benchmarks unless directed otherwise
- Tool inspection prior to event or the evening before competition
- There will not be any onsite pipe joinery technique instruction
- Proper insertion for all pipe joint is mandatory
- It is to be understood that throughout the competition, safety and project judging will be ongoing
- No project specific aids, tools allowed
- Dimensions may be modified before competition

Mock sprinkler system picture provided below.



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### EQUIPMENT, MATERIAL, CLOTHING

#### Equipment and Material Provided by The Committee:

Teflon Tape	Pipe threading machine	Roll groovers
Paint markers	Pipe cutters	1" x 2" die head
Pencil/paper/calculator	Master Pro-Dope, Brush	Common hand tools

**Note:** No other tools than the tools listed above will be allowed into competition area.

#### Equipment and Materials Provided By the Competitor

No equipment and material will be provided by the competitor. Required clothing (Provided by competitor)

- Coveralls / overalls allowed if sleeves used
- No jewellery
- Long hair must be tied back and concealed
- No cell phones or electronic devices allowed



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## SAFETY REQUIREMENTS

List of required personal protective equipment (PPE) provided by competitor

- Safety glasses
- CSA approved safety shoes
- Nitrile-coated gloves
- Hearing protection
- Hard hat
- Gloves

## ASSESSMENT

Point breakdown

POINT BREAKDOWN	/100
Installation/Fabrication Efficiency	15
Accuracy of Equipment Installation	15
Accuracy of Measurements	15
Appearance/Quality	15
Use of Tools	10
Testing and Inspection	15
Safety	15

Tie (No ties are allowed)

In the event of a tie, the competitor with the highest score in the safety criteria will be declared the winner.

## ADDITIONAL INFORMATION

Skills Canada Alberta Regional and Provincial Rules and Regulations

[Regional and Provincial Rules and Regulations](#)

### Lunch

Lunch for competitors will be provided by Skills Canada Alberta.

### Parking & Venue Maps

<http://edmontonexpocentre.com/attend/parking/>

### Opening Ceremonies / On-site Provincial Competitor Registration

Opening Ceremonies for the PSCC will take place on Tuesday May 2, 2023 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 Ceremony.



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### Awards Ceremony

The Awards Ceremony will take place on Thursday May 4, 2023 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 24- 27, 2023 in Winnipeg MB. 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 4, 2023 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 individuals 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](mailto:javierad@skillsalberta.com) prior to the start of competition on May 3, 2023.

Please prepare your students in advance to accept a position on Team Alberta and outline how your school will support their participation.

### 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.

### Questions?

Please contact Kennedy Mayer at [kennedym@skillsalberta.com](mailto:kennedym@skillsalberta.com) if you have any questions regarding the Contest Description.

### COMMITTEE MEMBERS

Emil Ohler	Mike Kastern (Chair)	Steve Bowers
Chris McCloskey	Rob Russell	Graham Dewar



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