

Contest Description

Edmonton Expo Centre, Edmonton

May 8 & 9, 2024

EVENT: Sprinkler Systems Installer	LEVEL: Post -Secondary																		
DURATION: 12 hours (two days)	LOCATION: HALL A, Edmonton Expo Centre, Edmonton																		
COMPETITION SCHEDULE:																			
May 8:	May 9:																		
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*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 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





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 sprinkler 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
- 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.



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





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 competitors will complete a theory exam based on NFPA 13 and NFPA 25.

ADDITIONAL INFORMATION

Skills Canada Alberta Regional and Provincial Rules and Regulations

[Regional and Provincial Rules and Regulations](#)

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 competitors will be provided by Skills Canada Alberta.

Parking & Venue Maps

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

Parking is FREE for all attendees.





Opening Ceremonies / On-site Provincial 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.skillsalberta.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 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 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.

Questions?

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

COMMITTEE MEMBERS

Graham Dewar	Mike Kastern (Chair)
Chris McCloskey	Rob Russell
John Vetra	

