

Contest Description
Edmonton Expo Centre, Edmonton
May 7 & 8, 2025

EVENT: Sprinkler Systems Installer	LEVEL: Post -Secondary																		
DURATION: 12 hours (two days)	LOCATION: HALL A, Edmonton Expo Centre, Edmonton																		
COMPETITION SCHEDULE:																			
May 7:	May 8:																		
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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 a Test Project has been circulated to competitors in advance, the PTC can change the project up to a maximum of 30% of the work content for the competition.

Lunch

Lunch for competitors will be provided by Skills Canada Alberta.





Parking & Venue Maps

Parking is FREE for all attendees.

Attendees **MUST** register for FREE parking by clicking the below link. Attendees can pre-register their vehicle at anytime prior to the PSCC, or register onsite at the PSCC.

<https://www.offstreet.io/location/81V8R1Z6>
<http://edmontonexpocentre.com/attend/parking/>

Opening Ceremonies / Competitor Registration

Opening Ceremonies for the PSCC will take place on Tuesday May 6, 2025, 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 8, 2025, 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 28- May 31, 2025, in Regina, SK. It is recommended that competitors review the SCNC contest description to be familiar with the national contest description and project at <https://www.skillscompetencescanada.com/en/calendars/category/skills-canada-national-competition/>

During the PSCC Awards Ceremony on Thursday May 8, 2025, 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 7, 2025.

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

Please see this link for additional Team Alberta information: <https://skillsalberta.com/team-alberta/>

Questions?

Please contact Mike Sury MikeS@SkillsAlberta.com



COMMITTEE MEMBERS

Chris McCloskey
Graham Dewar
John Vetra
Rob Russell
David Mcilwrick

