



2023 Provincial Skills Canada Competition



Contest Description

Edmonton Expo Centre, Edmonton

May 3 & May 4, 2023

EVENT: Plumbing	LEVEL: Post-Secondary																				
WORLDSKILLS TRADE #: 15	LOCATION: Hall A, Edmonton EXPO Centre, Edmonton																				
DURATION: 12 Hrs. (Over 2 Days)																					
COMPETITION SCHEDULE:																					
MAY 3:	MAY 4:																				
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CONTEST INTRODUCTION

To assess the competitor’s knowledge and skills in the installation of a plumbing system with high regard to the aspects of quality workmanship, proficiency of pipe joining techniques and accuracy of work within a specified time frame.

PROJECT DESCRIPTION

Please see the Test Project for the Plumbing Post-Secondary competition so competitors can train leading up to the competition. Please note that the attached Test Project **may** change on the day of the competition.

SKILLS AND KNOWLEDGE TO BE TESTED:

- Applying mathematical concepts involving 45° offsets in a piping system
- Interpreting and applying the blueprint specifications and managing material usage
- Assembling of various piping systems
- Assembly of pipe and fittings
 - Steel Threaded and Press Connect





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- Copper – Soft Soldering, **compression**, and Press Connect
- Plastic Pipe – ABS solvent cement
- Bending of copper tube using mechanical benders. (RIDGID – model 310/316m – cat. # 36962)
- Apply safe work practices

EQUIPMENT & MATERIALS

Approved Tool List to be Supplied by the Competitor:

CSA Approved Safety Glasses	IPT handbooks and current plumbing code may be used	Pocket calculator (Casio FX-260 or equivalent)
CSA Approved Steel Toed Boots	Measuring tape in millimeters (25 mm. wide recommended)	10-inch or 12-inch hack saw frame with spare blades
Work Gloves and Nitrile Gloves	Water pump pliers or equivalent	24-inch level
CSA Approved hearing protection	8-inch locking pliers or equivalent	9-inch level
Multi-tip or assorted screwdrivers	Metal and plastic deburring tools	Assorted adjustable wrenches (8" and 10" recommended)
Pex cutters	Small combination square	Side cutters
Pipe cutters for 1½" to 4" diameter plastic pipe	Tube cutters for ½" to 2" diameter copper tube	Hammer
Half round file	Plumb line	Chalk line
Pipe Wrenches (up to 14")	Writing Utensils (pens, pencils, markers)	

Competitors use his or her own hand tools as per the approved tool list. Toolboxes will be inspected by the Provincial Technical Committee (PTC) members (please see approved tool list). All workstations will be supplied with the required materials and committee tools (i.e. paper, pencils, etc.).

Equipment and Materials Supplied by the Committee:

2' square	RIDGID pipe benders model 310/316mm – cat. # 36962	Meter stick/straight edge
Tripods	Soldering torches (B tank turbo) or equal	Teflon tape
Press connect tool	Soldering materials	Drill bits
Pipe cutters for 1/8" to 2" diameter steel pipe	Cordless drill/driver	

***Tool demonstration will be provided if requested prior to orientation.**





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JUDGING CRITERIA

• Accuracy of Installation	60%
Approximately	
• Quality of Workmanship	30%
Approximately	
• Piping Pressure Test	10%
Approximately	
Overall Total	100%

TIE BREAKING PROCESS

In the event of a tie, judges will find additional measurements to break the tie.

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 submission can be denied should the participant not have the required proper safety equipment and/or act in an unsafe manner that can cause harm to themselves or others.

CONTEST AREA SPECIFIC SAFETY REQUIREMENTS

Competitors must wear long sleeve shirts while soldering.

CLOTHING REQUIREMENT

Appropriate work clothing must be worn to compete. All clothing must be neat and clean, and free of rips and tears. Casual wear such as shorts, and open toed shoes/sandals will not be permitted. No loose-fitting clothes or jewelry.

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.

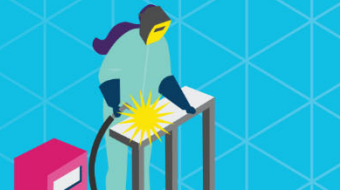
Parking & Venue Maps

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





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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.

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 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

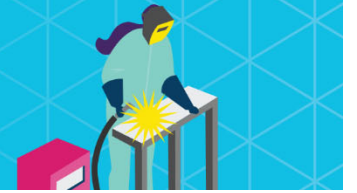
Where the Test Project has been circulated to Competitors in advance, PTC can change a maximum of 30% of the work content.

Questions?

Please contact Kennedy Mayer at kennedym@skillsalberta.com if you have any questions regarding the Contest Description.



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COMMITTEE MEMBERS

Lee Hallett – Red Deer Polytechnic	Brett Dillman – Northwestern Polytechnic	Mark Nelligan – RIDGID
Kerrie Light – Rinnai Canada	Jeremy Bridge – Lethbridge College	
Nathalie Roseberry - Past Competitor	Nathan Gold - NAIT	
Emery Byrt - RIDGID	Keith Crowell – Crowell Mechanical Consulting	