

2022 POST-SECONDARY PROVINCIAL SKILLS CANADA COMPETITION



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Contest Description

Edmonton Expo Centre, Edmonton

May 4 & May 5, 2022

EVENT: Plumbing	LEVEL: Post-Secondary																
WORLDSKILLS TRADE #: 15	LOCATION: Hall A, Edmonton EXPO Centre, Edmonton																
DURATION: 12 Hrs. (Over 2 Days)																	
COMPETITION SCHEDULE:																	
MAY 4:	MAY 5:																
<table border="1"> <tr> <td>ORIENTATION/ COMPETITION</td> <td>7:30AM 8:00AM</td> </tr> <tr> <td>BREAK</td> <td>10:00AM-10:15AM</td> </tr> <tr> <td>LUNCH</td> <td>12:15PM-1:15PM</td> </tr> <tr> <td>COMPETITION</td> <td>1:15PM-3:15PM</td> </tr> </table>	ORIENTATION/ COMPETITION	7:30AM 8:00AM	BREAK	10:00AM-10:15AM	LUNCH	12:15PM-1:15PM	COMPETITION	1:15PM-3:15PM	<table border="1"> <tr> <td>ORIENTATION/ COMPETITION</td> <td>7:30AM 8:00AM</td> </tr> <tr> <td>BREAK</td> <td>10:00AM-10:15AM</td> </tr> <tr> <td>LUNCH</td> <td>12:15PM-1:15PM</td> </tr> <tr> <td>COMPETITION</td> <td>1:15PM-3:15PM</td> </tr> </table>	ORIENTATION/ COMPETITION	7:30AM 8:00AM	BREAK	10:00AM-10:15AM	LUNCH	12:15PM-1:15PM	COMPETITION	1:15PM-3:15PM
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Please Note: Due to the uncertainty caused by COVID 19, the PSCC could be subject to change at any time based on the public health context. 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

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.



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SKILLS AND KNOWLEDGE TO BE TESTED:

- Applying mathematical concepts involving parallel, 60, 45 and 22 ½ offsets in a piping system
- Interpreting and applying the blueprint specifications and compiling a material order list
- Assembling of various piping systems
- Assembly of pipe and fittings
 - Steel Threaded and Press Fit
 - Copper – Soft Soldering and Press Fit
 - Plastic Pipe - Crimp, Cold Expansion and ABS drainage
- 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)	

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



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Equipment and Materials Supplied by the Committee:

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

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

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.



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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](#)

Competitors must be prepared to adhere to all public health measures in place at the time of the PSCC.

Lunch

Lunch for competitors will be provided by Skills Canada Alberta.

Parking & Venue Maps

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

Competitor Registration

Competitor Registration for the PSCC will take place on Tuesday May 3, 2022 from 9:00am-6:00pm outside Hall B of the Edmonton EXPO Centre. Please note you will be required to present your COVID-19 proof of vaccination.

Virtual Awards Ceremony

The Virtual Awards Ceremony will take place **Friday, May 6th at 6:30pm**. A link will be made available on the website with additional information prior to the ceremonies.

Team Alberta Information

Team Alberta (Post-Secondary) will be selected at the PSCC happening on May 4 - May 5, 2022. Top eligible medalists will compete at the Skills Canada National Competition (SCNC) May 24-28, 2022 in Vancouver, BC. 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/>.

If a competitor is not able to attend the SCNC, competitors MUST notify Katherine Kupchenko katherinek@skillsalberta.com prior to the start of competition. If a gold medalist is not able to attend the SCNC, the next top-ranking individual will be asked to participate.



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

COMMITTEE MEMBERS

Lee Hallett – Red Deer Polytechnic	Kelly Warkentin – Red Deer Polytechnic	Nathan Gold - NAIT
Matthew Lindberg – NAIT	Shane Brookes - SAIT	Keith Crowell – Apprenticeship and Industry Training
Nathalie Roseberry - Past Competitor	Jeremy Bridge – Lethbridge College	Mark Nelligan – RIDGID
Emery Byrt - RIDGID		

