

2021 PROVINCIAL SKILLS CANADA COMPETITION



CONTEST DESCRIPTION

CONTEST AREA: PLUMBING			LEVEL: Post-Secondary
COMPETITION DATE AND TIMES:			LOCATION: Competitors will compete individually from their local Post-Secondary Institution
Orientation	April 24	7:30am	
Competition Day 1	April 24	8:00am	
Competition Day 2	April 25	7:30am	
DURATION: 12HRS			WorldSkills Trade #: 15
<p>COMPETITION FORMAT: (VIRTUAL, AT A POST-SECONDARY INSTITUTION) Competitors will compete individually, in person, from their local Post-Secondary Institution. Location specific COVID-19 protocols must be followed. Post-Secondary Institutions and competitors will need to work together to ensure the competitor is ready for success on their competition day. They will need to prepare their competition space with all of the required tools, equipment, materials, and technology (as listed below) that will be needed to complete the competition. This competition will be closed to the public. Only registered competitors and assigned Provincial Technical Committee members will be allowed to attend.</p> <p>COMPETITION ORIENTATION: The competition will begin with a virtual orientation. Competitors will join the assigned videoconference link that will be emailed to all registered competitors for the competition orientation. Camera's MUST be on and competitors visible on the camera during the orientation.</p> <p>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 can be denied the right to participate should they not have the required proper safety equipment and/or act in an unsafe manner that can cause harm to themselves or others.</p> <p>Safety Checklist: It is the responsibility of each competitor and teacher to review the Safety Checklist (https://skillsalberta.com/additional-2021-competition-resources/) in advance of the competition and ensure they are able to meet all safety requirements. During the orientation, the safety checklist will be formally reviewed.</p>			

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AWARDS CEREMONY INFORMATION: Please join us for a live virtual awards ceremony on May 13th at 6:30PM.

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

To assess the competitors 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.

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 - PVC drainage
- Bending of copper tube using mechanical benders. (RIDGID – model 310/316m – cat. # 36962)
Apply safe work practices

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 slightly on the day of the competition.



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EQUIPMENT & MATERIALS

Competitor Provided Tools, Materials, and Equipment

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	CSA Approved hearing protection	Work Gloves and Nitrile Gloves
Measuring tape in millimeters (25 mm. wide recommended)	Writing Utensils (pens, pencils, markers)	

Institute Provided Tools, Materials, and Equipment

2' square	RIDGID pipe benders model 310/316mm – cat. # 36962	Steel Pipe cutter
Tripods	Soldering torches (B tank turbo) or equal	Meter stick/straight edge
Press fit tool	Soldering materials	Teflon
2' level	Cordless drill/driver	8-inch locking pliers or equivalent
Pex cutters	Small combination square	Side cutters
Pipe cutters for 1½" to 4" diameter plastic pipe	Tube cutters	Hammer
Half round file	Plumb line	Chalk line
9-inch level	Assorted adjustable wrenches (8" and 10" recommended)	Metal and plastic deburring tools
10-inch or 12-inch hack saw frame with spare blades	Water pump pliers or equivalent	Multi-tip or assorted screwdrivers

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

JUDGING CRITERIA

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



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TIE BREAKING PROCESS

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

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](#)

Post-Secondary Competitor Information is [available here](#).

Lunch

Lunch will be provided by Skills Canada Alberta

Team Alberta Information

Team Alberta will be selected from competition Gold medalists who will then be eligible to participate at the Skills Canada National Competition (SCNC) in a virtual format May 25-30, 2021. 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/>.

Ethical Conduct

We recognize that participants will be competing individually in their own unique environments. We expect all competitors to compete fairly, respecting and abiding by the established rules in the true spirit of Skills Canada Alberta.



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Letter of Participation

Competitors who participate in the 2021 Provincial Skills Canada Competition are eligible for a Letter of Participation by request by contacting katherinek@skillsalberta.com.

COMMITTEE MEMBERS

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



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