



Contest Description Edmonton Expo Centre, Edmonton May 8 & 9, 2024

EVENT: Mechanical Insulation	LEVEL: Post-Secondary																
WORLDSKILLS TRADE #: 11	LOCATION: Hall A, Edmonton Expo Centre, Edmonton																
DURATION: 10 Hrs. (Two Days)																	
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

Mechanical Insulation is installed onto Industrial and Commercial equipment to increase the efficiency of the system to which it is attached.

Purpose of the Challenge:

The purpose of the challenge is to enable the competitors to demonstrate their skills in working with insulation and PVC / Aluminum finishing materials.



PROJECT DESCRIPTION

Insulation fabrication and application skills

- Fabrication of miters for use on the supplied pipe rack
- Fabrication of an equal tee for use on the supplied pipe rack
- Fabrication of an unequal tee for use on the supplied pipe rack
- Application of insulation on the supplied pipe rack
- Application of the miters fabricated onto the supplied pipe rack
- Application of the equal and unequal tees onto the supplied pipe rack

PVC / Aluminum fabrication and application over the insulation

- Fabrication of PVC / Aluminum finishing materials over pipe insulation
- Fabrication of PVC / Aluminum to fit over an equal tee
- Fabrication of PVC / Aluminum to fit over an unequal tee
- Application of PVC / Aluminum finishing materials over pipe insulation
- Application of PVC / Aluminum fabricated equal and unequal tees
- Application of prefabricated elbows and end caps over pipe insulation

EQUIPMENT & MATERIALS

Equipment and Materials Competitors Must Supply:

- Approved Footwear
- CSA Approved Safety Glasses
- Work gloves

** The competitor will be provided with coveralls and must be worn during the competition



Equipment and Materials Supplied by the Committee:

- Pipe rack used for the insulating competition
- Hand tools including:

M-1 Aviation Snips	M-2 Aviation Snips
Combination Square	2 sets of Dividers
2- Tape Measure	Scratch Awl
2 Knives	Utility Knife
Pruning Saw	Nippers
Keyhole Saw	Sheetmetal Hammer
12 in Tinsnips	#2 Roberson Screwdriver
Tool Box	Sharpies/Pencils

Shop tools including:

- | | |
|----------------------|----------------|
| Glue Applicator | Framing Square |
| Circumference Rulers | Elastic Cords |
| Battery Drill | Hepa Vacuum |
| Band Tightener's | |

** Approved Coveralls

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.

- ** Competitors are required to follow all industry safety standards during the competition.
- ** The competitors are expected to wear the safety equipment during the competition.
- ** Competitors will not be allowed into the competition area without the required safety equipment.

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/>

Questions?

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

COMMITTEE MEMBERS

Andrew Garrett
Dan Annett
Kassy McDowell
Paul Blinzer
Josh Riedyk
Chantel Smith
Fred Savoie

Chair
Co-Chair
Insulators Union Local 110 (Try-A-Trade Lead)
Safety Lead
Crossroads C&I
Northern Alberta Institute of Technology (NAIT)
Northern Alberta Institute of Technology (NAIT)