

# 2022 POST-SECONDARY PROVINCIAL SKILLS CANADA COMPETITION



INSPIRE.  
DEVELOP.  
ELEVATE.



## Contest Description

Edmonton Expo Centre, Edmonton

May 4 & May 5, 2022

<b>EVENT:</b> Industrial Mechanic/Millwright	<b>LEVEL:</b> Post-Secondary
<b>START TIME:</b> May 4: REGISTRATION: 8:00 am-8:30 am ORIENTATION: 8:30 am-9:00 am COMPETITION: 9:00 am May 5: COMPETITION: 8:00 am	<b>LOCATION:</b> Hall A, Edmonton Expo Centre,
<b>DURATION:</b> 12 Hrs. (Two Days)	<b>WORLDSKILLS TRADE #:</b> 48

*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 test the knowledge and skills of each competitor in the areas of: blueprint reading, fluid power (pneumatics) ISO schematics, precision hand layout, precision fitting skills, use of hand tools, hand drills etc., install mechanical components, MIG welding and fabrication, predictive maintenance and laser shaft alignment (Fixturlaser SMC & NXA Pro).

## SKILLS AND KNOWLEDGE TO BE TESTED:

Welding, alignment, hand tool operation, layout operation, knowledge of imperial and ANSI measuring.

## TASKS THAT MAY BE PERFORMED DURING THE CONTEST

- Perform hand tool operations
- Perform precision hand layout operations
- Read and interpret blueprints
- Install supplied pneumatic components and build the required circuit as per given instruction
- Perform Predictive Maintenance tasks and a Laser Shaft Alignment including a Thermal Growth Offset
- Knowledge of Imperial measurement and ANSI symbols
- ISO Fluid Power (pneumatic) schematic drawings standards



Last Updated February 8, 2022

# 2022 POST-SECONDARY PROVINCIAL SKILLS CANADA COMPETITION



INSPIRE.  
DEVELOP.  
ELEVATE.



## EQUIPMENT & MATERIALS

### Equipment and Materials Competitors Must Supply:

CSA Approved Steel Toed Footwear	CSA Approved Safety Glasses	CSA Approved Hearing Protection
Shop Coats/Coveralls	Welding Jackets and gloves	Welding Helmut

### Equipment and Materials Supplied by the Committee:

Fixturlaser NXA Pro & Fixturlaser SMC Balancing Tool will be supplied and will be used for the predictive maintenance and alignment challenge.	“Swagelok” tube bending tools and components will be used for the stainless steel tube bending challenge.	Festo Didactic Pneumatic components for fluid power.
Welding equipment	All hand tools needed will be provided.	

### JUDGING CRITERIA: Points Breakdown

TASKS	/100
Fabrication & mig welding, precision layout, use of hand tools, fluid power(pneumatics) ,Mechanical component installation, stainless tube bending	75
Predictive Maintenance & laser shaft alignment with Thermal growth offset	25

### TIE BREAKING PROCESS

- Tiebreaker #1: Competitor with highest score in laser alignment will be declared the winner.
- Tiebreaker #2: If second tie occurs the competitor with the highest score in welding portion will be declared the winner.
- Tiebreaker #3: If third tie occurs the competitor with the highest score in the stainless tube bending will be declared the winner.



# 2022 POST-SECONDARY PROVINCIAL SKILLS CANADA COMPETITION



INSPIRE.  
DEVELOP.  
ELEVATE.



## CLOTHING REQUIREMENTS

Competitors are expected to be dressed in an appropriate manner with their own safety glasses, ear plugs, work boots and coveralls or shop coat. All clothing must be neat and clean and free of rips and tears. Casual wear such as shorts will not be permitted. No loose fitting clothes or jewelry.

## 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.

## 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.

## Virtual Awards Ceremony

The Virtual Awards Ceremony will take place **Friday, May 6<sup>th</sup> 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 Victoria Anderson [Victoriaa@skillsalberta.com](mailto:Victoriaa@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.

## Test Project change at the Competition



Last Updated February 8, 2022

# 2022 POST-SECONDARY PROVINCIAL SKILLS CANADA COMPETITION



INSPIRE.  
DEVELOP.  
ELEVATE.



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](mailto:whitneyk@skillsalberta.com) if you have any questions regarding the Contest Description.

## COMMITTEE MEMBERS

Roger Tokay – Chair

Jason Parnell

Lane Lisitza

Nathalie Drouin

Tony Tomkiewych

Brandon Graf



Last Updated February 8, 2022