



2023 Provincial Skills Canada Competition



Contest Description

Edmonton Expo Centre, Edmonton

May 3 & May 4, 2023

EVENT: Precision Machining	LEVEL: Post-Secondary														
WORLDSKILLS TRADE #: 03	LOCATION: Hall C, Edmonton EXPO Centre, Edmonton														
DURATION: 7 Hours (over 2 days)															
COMPETITION SCHEDULE:															
May 3:	May 4:														
<table border="1"> <tr><td><i>ORIENTATION</i></td><td>8:00AM-9:00AM</td></tr> <tr><td>COMPETITION</td><td>9:00AM-12:00 NOON</td></tr> <tr><td>LUNCH</td><td>12:00 NOON-1:00PM</td></tr> <tr><td>COMPETITION</td><td>1:00PM-4:00PM</td></tr> </table>	<i>ORIENTATION</i>	8:00AM-9:00AM	COMPETITION	9:00AM-12:00 NOON	LUNCH	12:00 NOON-1:00PM	COMPETITION	1:00PM-4:00PM	<table border="1"> <tr><td><i>COMPETITION</i></td><td>8:00AM-11:00AM</td></tr> <tr><td>LUNCH</td><td>11:00AM-12:00 NOON</td></tr> <tr><td>COMPETITION</td><td>12:00 NOON-3:00PM</td></tr> </table>	<i>COMPETITION</i>	8:00AM-11:00AM	LUNCH	11:00AM-12:00 NOON	COMPETITION	12:00 NOON-3:00PM
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CONTEST INTRODUCTION

A machinist uses machine tools to manufacture parts from raw material for a variety of industries. Nearly all consumer goods have been machined or are manufactured from tools or equipment which has been manufactured by a machinist.

Purpose of the Challenge:

Assess the competitor’s precision machining skills and trade knowledge through practical testing.

SKILLS AND KNOWLEDGE TO BE TESTED:

The contest will occur over two days (7 hours of competition). On the first day of competition there will be a 1 hour professional consultation followed by 3 hours of machining. The second day there will be 3 hours of machining. The machining section of the contest involves machining projects using a conventional engine lathe and a conventional vertical milling machine.

PROJECT DESCRIPTION

Conventional Engine Lathe

- Safe operating procedures
- Applied Metrology

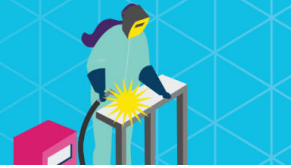
Conventional Vertical Milling Machine

- Safe operating procedures
- Applied Metrology

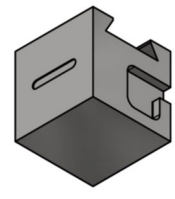
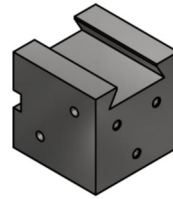
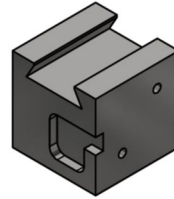
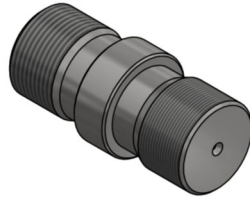




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- Cylindrical & Taper Turning / Grooving / Cylindrical Threading operations
- Three and Four-jaw chuck work
- Face / Pocket / Form milling
- Drilling / Counter Boring / Reaming operations



EQUIPMENT & MATERIALS

Equipment and Materials Competitors Must Supply:

- CSA approved safety glasses
- CSA approved steel toed footwear
- Shop coat (coveralls)
- Ear Plugs
- Competitors are required to follow all industry safety standards during the competition

***Competitors will not be allowed into the competition area without the required safety equipment.**

Equipment and Materials Supplied by the Committee:

- The following will be supplied to each competitor:
 - All appropriate measuring tools for the Lathe and Milling Machine projects
 - All appropriate lathe and milling machine cutting tools and holders.
 - Hand tools
 - Project Materials may include
 - Mild Steel
 - Alloy Steel
 - Aluminum

JUDGING CRITERIA

	Mill	Lathe
Project Completion	2.5%	2.5%
Compliance with Occupational Health and Safety regulations	2.5%	2.5%
Compliance with dimensions, tolerances, and fits as specified in plans	40%	40%
Compliance with appropriate surface finish and deburring	5%	5%
	50%	50%
	Total 100%	





Note:

If a second work piece blank is required, the contestant will lose 20% from the *“Compliance with dimensions, tolerances and fits as specified in plans”* section.

TIE BREAKING PROCESS

The time required by the contestants to complete their projects will determine the tie breaker.

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.

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/>

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/>

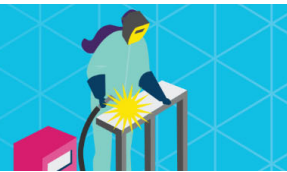
Team Alberta Information

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





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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.

COMMITTEE MEMBERS

Brandon Walker	Ryan Reeves	Reece Burdeniuk
Jason Aalders	Tim Wong	Marko Crepulja
Rob Fortier	Matthew Wood	Darren Roth
Graham Greenhall	Phillip Townsend	





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