

Provincial Scope Document

Precision Machining (Post Secondary) 2017



Contest Duration: 7 hrs. (3.5 hrs. Lathe, 3.5 hrs. Mill)

Check in time: 7:40 am. - **Orientation:** 7:45 am. - **Contest Start:** 8:00 am.

Purpose of the Challenge:

Asses the knowledge and skills of each competitor in the areas of:

1. Interpretation of Engineering Drawings
2. Operation of Conventional Engine Lathe
3. Operation of Vertical Milling Machine
4. Metrology

Skills & Knowledge to be Tested:

Turning	Milling
• Diameters: External & Internal	• Drilling, Tapping & Reaming
• Grooving: External & Internal	• Pocket Milling
• Threading: External & Internal	• Keyseat Cutting
• Tapers: External & Internal	• Dovetail Cutting
• Applied Metrology	• Applied Metrology
• Safety	• Safety

Equipment / Tools / Materials

Provided by the competitor: CSA approved personal protective equipment (Safety Glasses & Safety Boots)

Provided by the committee: All required equipment, measuring tools, cutters and materials.

Judging / Distribution of Marks

	Turning	Milling
Compliance with OHS regulations	5%	5%
Compliance with drawings specifications	35%	35%
Component Completion	10%	10%
	50%	50%
Total	100%	

Note: in case of a tie in this competition, the competitors will write a 25 question theory test for an additional 25%.

Technical Committee

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Arthur Field

David Peare

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Thomas Skinner

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Skills Canada BC reserves the right to update contest information. Please check the website for changes.