



Contest Description

Edmonton Expo Centre, Edmonton

May 6 & 7, 2026

EVENT: Industrial Mechanic (Millwright)	LEVEL: Post-Secondary
START TIME: May 6: REGISTRATION: 8:00 am - 8:15 am ORIENTATION: 8:15 am – 8:30 am COMPETITION: 8:30 am May 7: COMPETITION: 8:00 am	LOCATION: Hall A, Edmonton Expo Centre,
DURATION: 12 Hrs. (Two Days)	WORLDSKILLS TRADE #: 01

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

The Industrial Mechanic (Millwright) competition will evaluate each competitor's proficiency in key occupational competencies essential to the trade. Competitors will be assessed on their ability to apply safe work practices, technical knowledge, and precision in completing assigned task under industry-relevant conditions.

SCOPE OF THE COMPETITION

The competition may evaluate each competitor's proficiency in key Industrial Mechanic (Millwright) competencies, including:

- Precision layout
- Safe and effective use of hand and power tools
- Metal fabrication and welding
- Installation of mechanical components on industrial equipment
- Installation of fluid conductors (Piping, hose, and tubing)
- Interpretation and application of fluid power schematics for circuit construction and troubleshooting
- Equipment levelling and alignment
- Precision shaft alignment



BOSCH



2026 Provincial Skills Canada Competition

TASKS THAT MAY BE PERFORMED DURING THE CONTEST

- Read and interpret blueprints and technical drawings
- Perform precision layout tasks
- Measure and interpret dimensions using both imperial and metric systems
- Perform hand and power tool operations
- Perform metal fabrication task (cutting, grinding, drilling, tapping)
- Perform Gas Metal Arc Welding (GMAW/MIG) operations
- Create and interpret ISO-standard fluid power schematics
- Install fluid power components and construct circuits as per provided instructions
- Perform stainless steel tube bending and fitting installation
- Perform a levelling procedure
- Perform precision dial and laser shaft alignment
- Install mechanical power transmission equipment (bearings, couplings, belts and pulleys, sprockets and chains)
- Disassemble, inspect, and reassemble industrial equipment in accordance with technical documentation

NOTE: A detailed, competition-specific **Skill Set** document will be provided to trainers in December 2025.

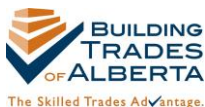
EQUIPMENT & MATERIALS

Equipment and Materials Competitors Must Supply:

CSA Approved Steel Toed Footwear	CSA Approved Safety Glasses (option for personal glasses)	Appropriate clothing such as shop-coat or coveralls
Mechanics gloves (optional)	Welding Jackets and gloves (optional)	Welding Helmet (optional)

Equipment and Materials Supplied by the Committee:

All PPE outside of those mentioned above	All hand and power tools.
Welding equipment and PPE	All measuring tools.



BOSCH



2026 Provincial Skills Canada Competition

Competition Specific Rules

The following Competition Specific rules along with SCA's overall Policies and Procedures provide specific details in competition areas that may vary from one another. Any additional contest rules will be reviewed during the Competitor Orientation.

Topic/Task	Contest Specific Rule
Use of electronic devices	- Electronic devices (including phones and smart devices) cannot be used during competition. - Competitor phones brought on site will be stored during competition times.
Competition documents and drawings	- Competition documents must not be removed from the competition site or recorded in any form. - Competitors must use only the documents provided during the competition.
Use of Artificial Intelligence (AI)	Competitors cannot use AI to develop/generate any of the submitted work for any aspects of the competition.

JUDGING CRITERIA

TASKS	100%
Fabrication and Welding	25%
Power Transmission and Industrial Equipment	25%
Fluid Power	25%
Alignment and Levelling	25%

TIE BREAKING PROCESS

- Tiebreaker #1: Competitor with highest mark in alignment and levelling will be declared the winner.
- Tiebreaker #2: If still tied, the competitor with the highest score in the fabrication and welding portion will be declared the winner.



BOSCH





CLOTHING REQUIREMENTS

Competitors are expected to be dressed in an appropriate manner with their own safety glasses, safety footwear and appropriate work clothing such as coveralls or a shop coat. All clothing must be safe for work, as well as neat, 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.

ADDITIONAL INFORMATION

Skillz & Thrillz Podcast

Check out our podcast – Skillz & Thrillz: Alberta's Trade & Tech Youth Podcast. Our talented alumni share tips and tricks on how to succeed in competitions and your career! Their insights can help you prepare for your Skills journey, and who knows, you might just be a future guest! <https://skillsalberta.com/student-resources/skillz-thrillz-albertas-trade-tech-youth-podcast/>

Skills Canada Alberta Regional and Provincial Rules and Regulations

[Regional and Provincial Rules and Regulations](#)

Test Project Change at the Competition

Where a Test Project has been circulated to competitors in advance, the PTC can change the project up to a maximum of 30% of the work content for the competition.

Lunch

Lunch for competitors will be provided by Skills Canada Alberta.

Parking & Venue Maps

Parking is FREE for all attendees.

Attendees **MUST** register for FREE parking by clicking the below link. Attendees can pre-register their vehicle at anytime prior to the PSCC or register onsite at the PSCC.

<https://www.offstreet.io/events/CBLHM7U1>
<http://edmontonexpocentre.com/attend/parking/>





Opening Ceremonies / Competitor Onsite Registration

Opening Ceremonies for the PSCC will take place on Tuesday May 5, 2026, 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 7, 2026, 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 27- May 30, 2026, in Toronto, Ont. It is recommended that competitors review and become familiar with the SCNC contest description and project at <https://www.skillscompetencescanada.com/en/event/skills-canada-national-competition-2026/>

During the PSCC Awards Ceremony on Thursday May 7, 2026, 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 highest-ranking individual will be asked to participate. If a student is not able to attend the Awards Ceremony an email confirming the student's interest in Team Alberta participation must be emailed to javierad@skillsalberta.com prior to the start of competition on May 6, 2026.

Please prepare your students in advance to accept a position on Team Alberta and review how your school will support their participation.

Please see this link for additional Team Alberta information: <https://skillsalberta.com/team-alberta/>

Questions?

Please contact Mike Sury MikeS@SkillsAlberta.com

COMMITTEE MEMBERS

Jason Parnell (SAIT) - Chair
Roger Tokay (NAIT) - Co-Chair
David Thompson (SAIT)
Chris Hrab (Pembina Pipeline)
Jon Siblagaan (STCD)
Wade Nicks (STCD)
Nathalie Drouin (STCD)



BOSCH

