



## Contest Description

Edmonton Expo Centre, Edmonton

May 6 & 7, 2026

|                                                        |                                                  |
|--------------------------------------------------------|--------------------------------------------------|
| <b>EVENT:</b> IT Network Systems Administration        | <b>LEVEL:</b> Secondary                          |
| <b>START TIME:</b><br>May 6: 8:30 AM<br>MAY 7: 9:00 AM | <b>LOCATION:</b><br>Hall E, Edmonton Expo Centre |
| <b>DURATION:</b> Two Days                              | <b>WORLDSKILLS TRADE #:</b> 39                   |

***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

Give competitors the opportunity to demonstrate their knowledge and challenge their skills in computer and network support functions.

### SKILLS AND KNOWLEDGE TO BE TESTED:

- Secondary competitors will be disassembling and assembling a PC, identifying components, and making recommendations for upgrading parts. Competitors will also wire an ethernet cable.
- Competitors will be expected to setup and do specific configurations of Windows 11 machines in a home or small business scenario.
- Competitors will complete help tickets on Windows 11 computers on a home network and build a network in a virtual environment using Packet Tracer software. Networking tasks at the secondary level will assume the use of a (virtual) Linksys wireless router.
- Cybersecurity activities will involve a written component and a practical component done within a Linux shell environment.

### PROJECT DESCRIPTION

- Computer hardware identification and recommendations.
- Troubleshoot and document configuration and networking issues
- Configure and troubleshoot Windows 11
- Configure Linux in a command line environment
- Perform basic network administration tasks.
- Use packet tracer software to troubleshoot and configure a virtual network environment.
- Understand basic switch configurations using Cisco IOS.



# 2026 Provincial Skills Canada Competition

- Understand basic routing and be able to set up and configure a (virtual) Linksys broadband router to manage a small home-based network and connect it to the Internet.
- Properly setup and secure network shares.
- Understanding of TCP/IP and ability to perform basic IPv4 subnet calculations and assign addresses.
- Understand IPv6 configuration
- Properly record system documentation.
- Time management.
- Understanding of general cybersecurity topics including common cybersecurity threats (i.e. phishing, malware, etc.), and common security practices (i.e. encryption, firewalls, etc.) to perform in a simulated incident and written component.

All competitors must always exhibit workplace safety procedures and conduct themselves professionally.

## EQUIPMENT & MATERIALS

### Equipment and Materials Competitors Must Supply:

|                                               |                  |
|-----------------------------------------------|------------------|
| Clothing: Appropriate business casual attire. | Computer Toolkit |
| Writing and documentation utilities.          |                  |

### Supplied Software:

|                                                    |                |
|----------------------------------------------------|----------------|
| Windows 11                                         | Windows Server |
| VMWare Workstation or VMWare player (17 or higher) | Putty          |
| Packet Tracer                                      | Linux          |

## 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 Technology                   | Competitors are <b>not allowed</b> laptops, tablets, cameras, cell phones, ear buds, calculators or other personal electronics in the competition area unless specified by the committee for certain tasks. |
| Use of Artificial Intelligence (AI) | Competitors <b>cannot</b> use AI to develop/generate any of the submitted work for any aspects of the competition.                                                                                          |

## JUDGING CRITERIA

- Omitting specifics, competition description will include marking of all elements.
- Competitor's ability to upgrade and properly configure PC workstation.
- Proper installation of operating system and application software.
- Safely utilize trade tools and display of proper methodology.
- Neatness of work area and space management.
- Neat and proper documentation of PC inventory and configuration settings.
- In the case of a tie at the end of the competition, the winner will be determined by the highest score on the troubleshooting section will be the winner, if still tied, the highest score on the Windows Networking section will determine the winner, if still tied, the highest score on the Packet Tracer section will determine the winner, committee, if still tied, the highest score on the Hardware section will determine the winner.

## EVALUATION BREAKDOWN:

- Computer Hardware and Troubleshooting 25%
- Server Challenges (Linux) 25%
- Network (Packet Tracer) 25%
- Cybersecurity 25%

## 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.

## RELATED CAREER AND TECHNOLOGY STUDIES COURSES

Descriptions of all related courses can be found on:

[Alberta Education](#)

|                                              |                                    |                                            |
|----------------------------------------------|------------------------------------|--------------------------------------------|
| NET2020: Workstation Technology & Operations | NET2060: Network Protocols         | NET3070: Routing Fundamentals              |
| NET2030: Network Structures                  | NET2070: Local Area Networks       | NET3090: Network Management                |
| NET2040: Network Media & Devices             | NET3050: Network Operating Systems | NET3100: Network Media & Devices, Security |



## 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](#)

### 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.

### Competitor Registration

Registration for the Provincial Skills Canada Competition (PSCC) will open online on January 14, 2026 @ 3:30 PM. Please refer to this competitions event page for additional registration and competition information: <https://skillsalberta.com/competition/>

### Lunch

Lunch for accredited 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](mailto: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](mailto:MikeS@SkillsAlberta.com)

### COMMITTEE MEMBERS:

|                         |             |
|-------------------------|-------------|
| Gerald Chung (Chair)    | Shan Kampen |
| Peter Estephan          | Oliver Chen |
| Damien Miller-McAndrews |             |

