



2023 Regional Skills Canada Competition



2023 North West Regional Skills Canada Competition

Contest Description (Scope Document)

Northwestern Polytechnic (NWP) Fairview Campus

April 20 & 21, 2023

EVENT: Robotics		LEVEL: Secondary								
DURATION OF CONTEST: 3 – 5 HOURS (DEPENDENT ON THE NUMBER OF ENTRIES)		LOCATION: NWP Fairview Campus - Atrium								
COMPETITION SCHEDULE: <table border="1"> <tr> <td>ORIENTATION</td> <td>April 20 6:00pm</td> </tr> <tr> <td>COMPETITION</td> <td>April 21 9:00am - 12:00pm</td> </tr> <tr> <td>LUNCH</td> <td>12:00pm - 12:30pm</td> </tr> <tr> <td>COMPETITION</td> <td>April 21 12:30pm - 3:30pm</td> </tr> </table> <p>ORIENTATION IS MANDATORY: Should a competitor not attend orientation they will unfortunately be disqualified from the competition.</p>		ORIENTATION	April 20 6:00pm	COMPETITION	April 21 9:00am - 12:00pm	LUNCH	12:00pm - 12:30pm	COMPETITION	April 21 12:30pm - 3:30pm	REGIONALIZED: NO If YES, To compete at the Provincial Skills Canada Competition students must qualify at their Regional Skills Canada Competition.
ORIENTATION	April 20 6:00pm									
COMPETITION	April 21 9:00am - 12:00pm									
LUNCH	12:00pm - 12:30pm									
COMPETITION	April 21 12:30pm - 3:30pm									
AWARDS CEREMONY INFORMATION: April 21 @ 6 pm in the NWP Fairview Campus Theatre										

CONTEST INTRODUCTION

Purpose of the Challenge:

To create engineering projects to encourage individuals with different skill sets to form co-operative teams to design, fabricate and operate a robot or multiple robots.

Mission Statement:

The intent of the challenge is to have teams of students independently designing / fabricating / operating robots capable of completing the competition tasks in competition with other student-fabricated robots. Teams are not allowed to develop or implement strategies based on interfering with their opponent's ability to complete the competition task set.

SKILLS AND KNOWLEDGE TO BE TESTED

- Drafting
- Mechanics
- Electronics
- Computer Programing
- Metalwork



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- Woodworking
- Communications

PROJECT DESCRIPTION

*****Please print off the 2023 Robotics Provincial Contest Description as it is referred to several times throughout the contest description**

- The NW AB Regional Skills Competition duplicates the Alberta Skills Canada (Provincial) challenge with the **exception of the following changes:**
 - Competition will be in NWP Administration Building Atrium with a playing surface of 12ft x 24ft square
 - It will be held April 24, 2020

EQUIPMENT & MATERIALS

Equipment and Materials Competitors Must Supply:

Please refer to the Provincial Contest Description

Equipment and Materials Supplied by the Committee:

Please refer to page 4 of the Provincial Contest Description

JUDGING CRITERIA

Please refer to the Provincial Contest Description.

TIE BREAKING PROCESS

PLEASE REFER TO PAGE 18 OF THE PROVINCIAL CONTEST DESCRIPTION

RELATED CAREER AND TECHNOLOGY STUDIES COURSES

Descriptions of all modules are located at the following website:

<https://education.alberta.ca/career-and-technology-studies/programs-of-study/>

CLOTHING REQUIREMENT

It is important that competitors present a professional image and appearance. Appropriate work clothing must be worn to compete. 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.

ADDITIONAL INFORMATION

Lunch will be provided for all competitors. Unfortunately, all allergies may not be able to be accommodated for. Please connect with the local Regional Coordinator for more information. Regulations & Policies: A copy of the Skills Canada Alberta Regional Regulations & Policies can be found at the following link: <http://www.skillsalberta.com/policies-and-procedures>

COMMITTEE MEMBERS

David	Tech Committee Chair
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