

# 2021 PROVINCIAL SKILLS CANADA COMPETITION



## CONTEST DESCRIPTION

<b>CONTEST AREA: AUTOBODY REPAIR</b>			<b>LEVEL:</b> Post-Secondary
<b>COMPETITION DATE AND TIMES:</b>			<b>LOCATION:</b> Competitors will compete individually from their local Post-Secondary Institution
Orientation	May 1 <sup>st</sup>	8:30-9:0am	
Competition Day 1	May 1 <sup>st</sup>	9:00am-4:00pm	
Competition Day 2	May 2 <sup>nd</sup>	9:00am-4:00pm	
<b>DURATION:</b> 12 HOURS IN TOTAL OVER 2 DAYS			WorldSkills Trade #: 13
<p><b>COMPETITION FORMAT: (VIRTUAL, AT A POST-SECONDARY INSTITUTION)</b>                  Competitors will compete individually, in person, from their local Post-Secondary Institution. Location specific COVID-19 protocols must be followed. Post-Secondary Institutions and competitors will need to work together to ensure the competitor is ready for success on their competition day. They will need to prepare their competition space with all of the required tools, equipment, materials, and technology (as listed below) that will be needed to complete the competition. This competition will be closed to the public. Only registered competitors and assigned Provincial Technical Committee members will be allowed to attend.</p> <p><b>COMPETITION ORIENTATION:</b> The competition will begin with a virtual orientation. Competitors will join the assigned videoconference link that will be emailed to all registered competitors for the competition orientation. Camera's <b>MUST</b> be on and competitors visible on the camera during the orientation.</p> <p><b>SHIPPING PROJECT FOR JUDGING:</b> Competitors will be required to ship their finished projects for judging. Skills Canada Alberta will provide packaging and shipping labels. Competitors will be required to ship their projects with in 36 hours. Additional shipping information will be shared in advance of the competition.</p> <p><b>SAFETY:</b>                  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.</p> <p><b>Safety Checklist:</b> It is the responsibility of each competitor and teacher to review the Safety Checklist (<a href="https://skillsalberta.com/additional-2021-competition-resources/">https://skillsalberta.com/additional-2021-competition-resources/</a>) in advance of the</p>			



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competition and ensure they are able to meet all safety requirements. During the orientation, the safety checklist will be formally reviewed.

**AWARDS CEREMONY INFORMATION:** Please join us for a live virtual awards ceremony on May 13<sup>th</sup> at 6:30PM.

**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 purpose of the Auto Body Repair competition is to evaluate each competitor's competency to organize and execute a given number of work assignments accurately and safely in the field of Auto Body Repair, and to recognize outstanding competitors for excellence and professionalism.

## SKILLS AND KNOWLEDGE TO BE TESTED

Competitors should possess the skills to be able to:

- Measure, cut, fit, and weld metal component assemblies using GMAW equipment and spot welders
- Interpret vehicle dimensions, specifications, and accurately measure given points on a vehicle
- Metal shape and finish a panel with the use of a hammer, dolly, file, and the use of plastic filler
- Perform structural adhesive repairs on plastic components
- Aluminum riveting and welding techniques
- Aluminum dent repair

## PROJECT DESCRIPTION

Competitors will be asked to perform the following projects:

- Mock B panel sectioning and welding (3hrs)
- Dimensional assessment on a vehicle (1.5hrs)
- Structural composite repair (1.5hrs)
- Metal repair - working with dolly, pick, file and the use of plastic filler (3hrs)
- Aluminum riveting and welding project (1.5hrs)
- Aluminum dent repair (1.5hrs)

**Please note:** Posted projects may be subject to change up to 25% at the time of the competition



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## EQUIPMENT & MATERIALS

### Equipment and Materials Supplied by the Institute:

220 Amp 110V Power Supply	Compressed Air	Steel MIG, Aluminum MIG and Resistance Spot Welding Equipment
Air Control Equipment	All Repair Material Associated with the Project(s)	Stainless Steel Brush
Worktable	Vice	Heat Gun
Riveter (as required)	Drill Bits	Spot Weld Cutters
Measuring Tram Gauge	Trouble Light	

### Equipment and Materials Competitors Must Supply:

All personal Auto Body Repair Technicians Tools and Safety Equipment, Including:

CSA Approved Steel Toed Footwear	CSA Approved Safety Glasses	Safety Face Shield
Coveralls (one piece - cotton) Non-Disposable	Mechanics Gloves	Welding Helmet and Leather MIG Welding Gloves
Charcoal Respirator P-100 HEPA cartridge or disposable <b>(MUST fit under welding helmet)</b>	Straight Edge and Felt Marker Pencil	Grinder (air or electric)
Pistol Grip Sander	Die Grinder	Pistol Grip Grinder
Reciprocating Saw (optional)	Cut-Off Tool – <b>WITH GUARD</b>	Cold Chisels/Seam Splitter
Random Orbit Sander	Drill - air <u>or</u> electric <u>or</u> cordless	Dollies (all purpose and flat)
Sure-form File	Body Filler Mixing Board	Body Filler Spreader
Ball Peen Hammer	Body Hammers (Cross Peen and Pick)	Air Blow Gun
Center Punch (optional)	Assortment of Vise Grips	Body File (Vixen)
Sanding Blocks	Hacksaw and Blade	Long Board Sander
Side Cutters or MIG Welding Pliers	Pliers and Needle Nose Pliers	Utility Knife and Blades
Metal Hand File	Metric Tape Measure	

### **IMPORTANT:**

**BRING A FEMALE AIR COUPLER END TO MATCH YOUR AIR TOOLS**

**NO HOMEMADE OR ALTERED TOOLS OF ANY KIND PERMITTED**

## JUDGING CRITERIA

Metal sectioning and welding skills, plastic repair skills, measuring and accuracy, metal repair techniques and aluminum riveting and welding skills.



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- B Pillar Sectioning- 300 Points
- Metal Repair- 300 Points
- Aluminum Dent Repair- 100 Points
- Vehicle Measuring- 100 Points
- Plastic Repair- 100 Points
- Aluminum Welding Project- 100 Points

Total Points: **1000**

## TIE BREAKING PROCESS

All events within the competition will be timed. In the event of a tie, the total amount time taken for the entire competition by the tying competitors will be factored into the scoring process.

## CONTEST AREA SPECIFIC SAFETY REQUIREMENTS

The health, safety and welfare of all individuals involved with Skills Canada Alberta, in conjunction with NAIT, 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.

## CLOTHING REQUIREMENT

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 and open toed shoes/sandals will not be permitted. No loose-fitting clothes or jewelry.

## ADDITIONAL INFORMATION

### Skills Canada Alberta Regional and Provincial Rules and Regulations

[Regional and Provincial Rules and Regulations](#)

Post-Secondary Competitor Information is [available here](#).

### Lunch

Lunch will be provided by Skills Canada Alberta

### Team Alberta Information

Team Alberta will be selected from competition Gold medalists who will then be eligible to participate at the Skills Canada National Competition (SCNC) in a virtual format May 25-30, 2021. 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/>.



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## Ethical Conduct

We recognize that participants will be competing individually in their own unique environments. We expect all competitors to compete fairly, respecting and abiding by the established rules in the true spirit of Skills Canada Alberta.

## Letter of Participation

Competitors who participate in the 2021 Provincial Skills Canada Competition are eligible for a Letter of Participation by request by contacting [katherinek@skillsalberta.com](mailto:katherinek@skillsalberta.com).

## COMMITTEE MEMBERS

<b>Stefano Liessi – Committee Chair</b>	Jim Peterson
Ashley Pederson	Lisa Little
Jason Budd	Muhammad Afzal
Craig Mannell	Nathan Badry
Jozef Lachkovic	Jason Arnott



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