



Contest Description

Edmonton Expo Centre, Edmonton

May 8 & May 9, 2024

EVENT: Auto Body Repair	LEVEL: Secondary
COMPETITION START TIMES: May 8: Orientation 7:30am - 8:30am Competition 8:30am - 3:30pm May 9: Orientation 8:00am - 8:30am Competition 8:30am - 3:30pm	LOCATION: Hall C, Edmonton Expo Centre, Edmonton
DURATION: 12 hrs. (Two Days)	REGIONALIZED: No
WORLDSKILLS TRADE #: 13	

*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



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safety



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 (1.5 hrs)
- Aluminum dent repair (1.5hrs)

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

EQUIPMENT & MATERIALS

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 (MUST fit under welding helmet)	Straight Edge and Felt Marker Pencil	Grinder (air or electric)
Pistol Grip Sander	Die Grinder	Pistol Grip Grinder
Reciprocating Saw (optional)	Cut-Off Tool – WITH GUARD	Cold Chisels/Seam Splitter
Random Orbit Sander	Drill – air <u>or</u> electric <u>or</u> cordless	Dollies (all purpose and flat)
Belt Sander (optional)	Body Filler Mixing Board	Body Filler Spreaders
Ball Peen Hammer (optional)	Body Hammers (Cross Peen and Pick)	Metric Tape Measure
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
Various Metal Hand Files (Optional)	Spot Weld Drill (Optional)	Drill Bits
Metal Hole Punch (Optional)		
IMPORTANT:		
M-STYLE AIR FITTINGS WILL BE USED		
IF YOU DO NOT HAVE M-STYLE FITTINGS YOU NEED TO BRING A FEMALE AIR COUPLER END TO MATCH YOUR AIR TOOLS		
NO HOMEMADE OR ALTERED TOOLS OF ANY KIND PERMITTED		





Equipment and Materials Supplied by the Committee:

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)	Smoke and Vapor Ventilation	Aluminum Repair Dent Station
Measuring Tram Gauge	Trouble Light	

JUDGING CRITERIA

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

- 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.

RELATED CAREER AND TECHNOLOGY STUDIES COURSES

Descriptions of all modules are located at the following website:

<https://education.alberta.ca/media/160545/mec.pdf>

MEC1160: Structures & Materials	MEC2170: Metal Repair & Finishing	MEC2210: Touch-up & Finishing
MEC1170: Metal Forming & Finishing	MEC2190: Surface Preparation 2	MEC3160: Body Repair Estimation
MEC1190: Surface Preparation 1	MEC2200: Refinishing 1	MEC3170: Damage Analysis
MEC3180: Damage Repair 1	MEC3190: Damage Repair 2	MEC3200: Refinishing 2
MEC3210: Plastic & Fiberglass	MEC3230: Refinishing 3	MEC2220: Interior Repairs





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.

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

Skills Canada Alberta Regional and Provincial Rules and Regulations

[Regional and Provincial Rules and Regulations](#)

Competitor Registration

Registration for Provincial Skills Canada Competition (PSCC) will open online on January 17, 2024 @ 8:30 AM. Please refer to this competitions event page for additional registration and competition information:

<https://skillsalberta.com/competition/>

Test Project change at the Competition

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

Lunch

Lunch for accredited competitors will be provided by Skills Canada Alberta.

Parking & Venue Maps: <http://edmontonexpocentre.com/attend/parking/>

Parking is FREE for all attendees.

Opening Ceremonies / Competitor Registration

Opening Ceremonies for the PSCC will take place on Tuesday May 7, 2024, 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.



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Awards Ceremony

The Awards Ceremony will take place on Thursday May 9, 2024, 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- June 1, 2024, in Quebec City, QC. 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/>.

During the PSCC Awards Ceremony on Thursday May 9, 2024, 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 top ranking individual will be asked to participate. If a student is not able to attend the Awards Ceremony a letter confirming the student’s interest in Team Alberta participation must be emailed to javierad@skillsalberta.com prior to the start of competition on May 8, 2024.

Please prepare your students in advance to accept a position on Team Alberta and outline how your school will support their participation. Furthermore, it is very important that all fieldtrip/travel information for potential Team AB members is organized and completed prior to the selection of Team AB.

Questions?

Please contact Whitney Koop at whitneyk@skillsalberta.com if you have any questions regarding the Contest Description.

PROVINCIAL TECHNICAL COMMITTEE (PTC) MEMBERS – AUTO BODY REPAIR

Nathan Badry – Committee Chair	Jim Peterson
Francesco Fulginiti	Lisa Little
Craig Mannell	Stefano Liessi
Jason Budd	Jason Arnott
Jozef Lachkovic	

