



CONTEST DESCRIPTION

Autobody Repair

TEAM CANADA

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1 THE SKILLS FOR SUCCESS FOR CAREERS IN THE SKILLED TRADES AND TECHNOLOGY

In response to the evolving labour market and changing skill needs, the Government of Canada has launched the new Skills for Success (*former Essential Skills*) model defining nine key skills needed by Canadians to participate in work, in education and training, and in modern society more broadly. SCC is currently working with Employment and Social Development Canada (ESDC) to bring awareness of the importance of these skills that are absolutely crucial for success in Trade and Technology careers. Part of this ongoing initiative requires the integration and identification of the Skills for Success in contest descriptions, projects, and project documents. The next phase and very important aspect of our Skills for Success (SfS) initiative is to provide a *Skills Report Card* to each competitor at the Skills Canada National Competition. The purpose of the report card is to inform the competitor about their current level of nine identified Skills for Success based on their competition scores. With this knowledge, the competitor will be made aware which skill may require improvement. Full implementation is expected in the next Skills Canada National Competition.

The following 9 skills have been identified and validated as key skills for success for the workplace in the legend below:

¹Numeracy, ²Communication, ³Collaboration, ⁴Adaptability, ⁵Reading, ⁶Writing, ⁷Problem Solving, ⁸Creativity and Innovation, ⁹Digital

These Skills for Success have been identified in section 2.4 and/or 3.2 of your Contest Description and if applicable, in your Project and supporting documents.

2 CONTEST INTRODUCTION

2.1 Description of the associated work role(s) or occupation(s)

https://www.skillscompetencescanada.com/en/skill_area/autobody-repair/

2.2 Purpose of the Challenge

The competitor must be able to carry out, unaided, the following tasks:

- Determine the type and extent of structural misalignment in a damaged unitized body shell using industry recognized auto-body measuring equipment.
- Provide the judges with a written description of the structural misalignment of the body shell.

- Replace a damaged structural (frame) member using internationally accepted procedures, including those of the manufacturer.
- Repair cosmetic damage to an exterior steel and/or aluminium and /or plastic body panel (fender, door, quarter panel, roof, etc.) by metal finishing (or repair product in the case of a plastic panel).
- Replace cosmetic semi structural exterior steel and/or aluminium body panel (fender, door, quarter panel, roof, etc.) The welded joints are to be ground and dressed ready for a thin application of filler.
- Welding to vehicles structure and body parts may include MIG Brazing, Aluminium MIG- welding.

2.3 Duration of contest

Duration of contest will be 12 hours.

2.4 Skills and Knowledge to be tested.

- The safe and proper use of power (pneumatic/electric) tools commonly used in the autobody repair industry
- The competent use of autobody measuring equipment to determine the existence, and the accurate correction, of structural misalignment of the unitized body shell
- The proper set-up and use of welding equipment for the repair or replacement of autobody components
- The use of autobody dimension and specification manuals
- The safe and proper used of hand tools in the repair of damaged panels
- Removal and replacement of a structural panel using OEM procedures.

3 CONTEST DESCRIPTION

3.1 List of documents produced and timeline for when competitors have access to the documents on the Skills/Compétences Canada website

DOCUMENT	DATE OF DISTRIBUTION
Project	January 2022
Measuring Project	TBC
Structural Sectioning Project	TBC
Steell Panel Dent Repair	TBC
Aluminum Dent Repair	TBC
Plastic Bumper Repair Cosmetic	TBC

3.2 Tasks that may be performed during the contest

- Sectioning Project⁷ using a variety of fastening techniques ie: plug welding, resistance spot welding and/or adhesive bonding¹
- Measuring Damage Analysis and Information retrieval^{7, 9} (Audatex tutorial training will be available online one week prior to the competition)
- Aluminum dent repair⁷
- Steel dent repair⁷
- Plastic bumper repair⁷

Skills for Success - ¹Numeracy, ⁷Problem Solving, ⁹Digital

4 EQUIPMENT, MATERIAL, CLOTHING

4.1 Equipment and material provided by Skills/Compétences Canada

- MIG welder, spot welder, 3D measuring equipment, materials for repairs

COMPETITORS WILL BE REQUIRED TO USE THE MATERIAL AND EQUIPMENT PROVIDED BY SCC. ALL OTHER MATERIAL AND EQUIPMENT WILL BE REMOVED FROM THE SKILL AREA.

4.2 Equipment and material provided by the competitor

- All required auto body technician tools (see posted tool list on Skills Canada website)

4.2.1 Toolboxes Guidelines

One of the objectives of SCC is the sustainability of the Competition. As a result, the toolboxes brought by Competitors will be restricted to the following maximum specifications.

The Competitor toolbox must not exceed 1.5 meters³ in volume. It can be multiple toolboxes but the total of all toolboxes must not exceed the maximum volume indicated. There is no exception to this rule. If the Competitor toolbox is larger than what is indicated, the Competitor with the guidance of the Expert, will need to remove items from the toolbox and those items will not be used during the competition. All tools must fit inside one or more toolboxes. Tools outside of a toolbox will not be permitted.

4.3 Required clothing provided by the competitor

- Coveralls and/or pants and long sleeve shirt
- Welding coat for grinding and welding.

5 HEALTH AND SAFETY

5.1 Safety program

SCC has implemented a comprehensive safety program as health and safety is an integral part of our competitions. Our safety program includes guidelines and procedures to make the work environment in each skill area safer.

5.1.1 Safety manual

As part of our program a safety manual has been created in order to monitor and document health and safety within each skill area. It includes a definite plan of action designed to prevent accidents. The safety manual will be provided for every skill and these instructions must be followed and respected by all participants and officials at the SCNC.

5.1.2 Safety workshop

During orientation, Competitors will participate in a Safety workshop and they will be expected to work and maintain a safe working area during the competition. Any Competitor breaking any health, safety, and environmental rules, may be required to undertake a second safety workshop, this will not affect the Competitor's competition time.

5.2 List of required personal protective equipment (PPE) provided by competitors

- Safety glasses
- Safety gloves
- Hard hat
- Hearing protection
- Face shield
- CSA approved safety shoes
- Welding helmet
- Welding gloves
- Respiratory protection-dust and fume mask
- Nitrile gloves
- Leather work gloves

5.3 COVID-19 Protocol

The COVID-19 guidelines will be shared as soon as they are available.

The COVID-19 guidelines will be subject to change based on the BC COVID-19 guidelines in place at the time of the competition.

6 SAFETY REQUIREMENTS

6.1 Safety workshop

Upon arrival at the Skill area, Competitors will participate in a Safety workshop and they will be expected to work and maintain a safe working area during the competition. Any Competitor breaking any health, safety and environmental rules, may be required to undertake a second safety workshop, this will not affect the Competitor's competition time.

6.2 List of required personal protective equipment (PPE) provided by Skills/Compétences Canada

- N/A

6.3 List of required personal protective equipment (PPE) provided by the competitor

- Safety glasses
- Safety gloves
- Hard hat
- Hearing protection
- Face shield
- CSA approved safety shoes
- Welding helmet
- Welding gloves
- Respiratory protection-dust and fume mask
- Nitrile gloves
- Leather work gloves

Note: Contestants who do not have the required protective gear will not be allowed to participate in the contest

7 ASSESSMENT

7.1 Point breakdown

Note: This list is subject to change.

Task	# points
Sectioning Project	40
Aluminum/steel dent repair	15
Measuring and Diagnosis	20
Plastic bumper repair	25

8 CONTEST SPECIFIC RULES

Contest specific rules cannot contradict or take priority over the Competition Rules. They do provide specific details and clarity in areas that may vary from contest to contest. Any additional contest rules will be reviewed during the competitor orientation.

TOPIC/TASK	CONTEST SPECIFIC RULE
Safety	Competitors are obligated to wear all PPE required for the task
Tools / infrastructure	All tools must have their guard in place
Tools / Infrastructure	Competitors are not allowed to bring or use fabricated tools

9 ADDITIONAL INFORMATION

9.1 Interpreter

If a competitor requires the help of an interpreter once onsite during the competition, the Skills/Compétences Canada Provincial/Territorial offices must advise Skills/Compétences Canada National Secretariat a minimum of 1 month prior to the competition or this service might not be guaranteed.

9.2 Ties

- Tiebreaker #1: In the event of a tie, the competitor with the highest score in the Sectioning project will be declared the winner.
- Tiebreaker #2: If a tie remains, the competitor with the high score in the dent repair project will be declared the winner.
- Tiebreaker #3: If a tie still remains, the competitor with the highest score in the Measuring criteria will be declared the winner.

9.3 Test Project change at the Competition

Where the Test Project has been circulated to Competitors in advance, the Expert shall change a maximum of 30% of the work content. Please refer to the Competition Rules.

9.4 Competition rules

Refer to the competition rules of the Skills Canada National Competition which can be found on our website.

10 TEAM CANADA EXPERT

William Speed

Contact the Skills/Compétences Canada national secretariat for any questions or concerns: Sophie Courchene at sophiec@skillscanada.com