Skills Compétences Canada

PROJECT D

Autobody Repair

SECONDARY and POST-SECONDARY

Skills Compétences Canada
Regina2025

MEASURING AND DAMAGE ANALYSIS
TASK SHEET
Duration of project: 1 hour

This section will determine the competitor's ability to retrieve vehicle identification information, use measuring equipment, vehicle specification sheets, and knowledge of vehicle damage analysis.
D-1.1.1-5 Information retrieval using Car-O-Liner equipment. An orientation will be provided on the Car-O-Liner

D-2.1 Measuring locations #1:

- Take and record measurements, at eight underbody control point locations.
- First pair of measuring locations will be the "Zero Points" as determined by the Car-O-Liner software.
- The second set will be the front of the vehicle "Center Section" or front "Torque Box" locations.
- A fifth random point may be needed to complete the software requirements.
- Four more measuring points will then be taken to measure the remaining control points, two at the front and two at the rear.
- Further measuring points may need to be taken to accurately capture and assess vehicle accident damage

The competitor will be provided with the necessary Car-O-Liner frame measuring:

1. Measuring slide and pod
2. Frame spec software

D-2.2: Using the Car-O-Liner under body measurements taken in D-2.1, provide a written description of the damage found. Be sure to use appropriate frame condition terminology and distances.

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D-2.3:
<u>The competitor must match the following terms to the definitions.</u>

1. _____ rails are out of parallel when viewed from the side
2. _____ rail has buckles on all side's length is shortened
3. _____ rail has lateral misalignment; buckles are on one side of rail only
4. _____ rails are in a parallelogram shape when viewed from the bottom
5. _____ rail has datum misalignment, buckles on top or bottom of rail only

Term list – a) Side sway, b) Sag, c) Mash, d) Twist, e) Diamond

D-3:

Measuring locations #2:
The competitor will be provided with vehicle measuring equipment such as:

1. Tape measure and tram bar frame measuring equipment
2. Clipboard, assessment sheets, and pencil
3. Frame spec sheet of under-hood section

D-3.1: Competitor must calibrate the measuring device.

D-3.2: Take measurements at 3 pre-determined points as highlighted on the under-hood specification sheet.