

DAMAGE ANALYSIS OF UNITISED STRUCTURES—FRONT

EA001E01

Course Format: Online training with posttest

I-CAR Credit Hours: 1 hour

Points: 0.25

This course helps satisfy ProLevel training requirements for the following roles:



Estimator



Assessor

Note: If you have successfully completed DAM12, you will no be required to complete this course.

Knowledge and Skill Area Definition

Estimator/ Assessor is able to identify parts of the unitised structure, identify damage based on vehicle measurements, explain collision energy management principles, and list repair considerations for unitised structures.

Knowledge Detail

- Identify the repair and replace considerations for unitised structure damage analysis.
- Discuss repair considerations for radiator core support, upper and lower rails, strut towers, aprons, engine cradle, and cowls.
- Identify vehicle structures (unibody, space frame).
- Examine how collision forces are adsorbed by the unitised structure and how vehicle damage may occur away from the point of impact.
- Discuss the use of visual indicators, such as panel gaps, to identify damage.
- Explain point-to-point measuring techniques used during the damage analysis process.
- Discuss three-dimensional measuring principles to measure three dimensional planes.
- Identify when use of heat is allowed during repairs.
- Discuss partial and full part replacement options.