

**Specification of Competency Standards for the Automotive Industry**  
**Unit of Competency**

1. Title	Check and repair aluminium alloy vehicle body
2. Code	AUSDST321A
3. Range	This unit of competency is applicable in vehicle body servicing workshops. Practitioners should be capable to safely check and repair aluminium alloy vehicle body according to the instructions in the vehicle manufacturer's servicing manual. They should also be capable to conduct basic test of components upon completion of work.
4. Level	3
5. Credits	6(for reference only)
6. Competency	<p style="text-align: center;"><b><u>Performance Requirements</u></b></p> <p>6.1 Understand the repairing of aluminium alloy vehicle body</p> <ul style="list-style-type: none"> <li>◆ Understand the characteristics of aluminium alloy suitable to be used as the material for vehicle body, including its comparison with steel and the damages of iron elements to aluminium alloy</li> <li>◆ Understand various kinds of methods to join aluminium alloy panels and the materials and tools required</li> <li>◆ Understand the categories, specification and standard of aluminium alloy welding rods and wires commonly used in MIG/TIG welding</li> <li>◆ Understand the working procedure for aluminium alloy</li> </ul>

	<p>6.2 Check and repair aluminium alloy vehicle body</p> <ul style="list-style-type: none"> <li>◆ Repair aluminium alloy vehicle body according to the instructions in the vehicle manufacturer's servicing manual, the requirements of occupational safety and health and environmental protection as well as the Code of Practice for Safety and Health at Work for Manual Electric Arc Welding, including: <ul style="list-style-type: none"> <li>• Use adhesives</li> <li>• Use rivets</li> <li>• Welding</li> <li>• Use correct tools to cut and grind</li> </ul> </li> <li>◆ Conduct visual inspection and dimensional check on vehicle body and the surface of welding seams according to the specification provided by vehicle manufacturer</li> </ul>
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to safely check and repair aluminium alloy vehicle body panels according to the instructions in the vehicle manufacturer's servicing manual and the Code of Practice for Safety and Health at Work for Manual Electric Arc Welding; and know how to select the materials and tools required for repair work; and</p> <p>(ii) Capable to conduct visual inspection and dimensional check on vehicle body panels and the surface of welding seams according to the specification provided by vehicle manufacturer.</p>
8. Remarks	<p>The credits value of this unit of competency is set on the presumption that the people concerned already possess basic knowledge of MIG/TIG and vehicle body structure.</p>