Specification of Competency Standards
for the Automotive
Unit of Competency

Functional Area - Vehicle Servicing

Title	Check and repair aluminium alloy vehicle body
Code	111713L3
Range	This unit of competency is applicable in vehicle body servicing workshops. Practitioners should be able to safely check and repair aluminium alloy vehicle body according to the instructions in the vehicle manufacturer's servicing manual and the relevant requirements on environment, occupational safety and health regulations. They should also be able to conduct basic test of components upon completion of work. Providing written report after the work.
Level	3
Credit	3 *(For Reference Only)*
Competency	**Performance Requirements** 1. Knowledge (Repairing of aluminium alloy vehicle body) • Be familiar with 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. • Be familiar with various kinds of methods to join aluminium alloy panels and the materials and tools required. • Understand the categories, specification and standard of aluminium alloy welding rods and wires commonly used in MIG/TIG welding. • Understand the working procedure for aluminium alloy. • Understanding the relevant legal requirements on road and vehicle safety and environment protection. 2. Performance (Check and repair aluminium alloy vehicle body) • 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: ◦ Use adhesives ◦ Use rivets ◦ Welding ◦ Use correct tools to cut and grind. • Conduct visual inspection and dimensional check on vehicle body and the surface of welding seams according to the specification provided by vehicle manufacturer and provide written report focusing on: ◦ Abnormalities ◦ Measured data ◦ Major decision
Assessment Criteria	The integrated outcome requirements of this unit of competence are that the practitioner being assessed shall prove that he/she is:

	• Capable of safely checking and repairing aluminium alloy vehicle body panels according to the instructions in the vehicle manufacturer's servicing manual, the relevant requirements on environment, occupational safety and health regulations and the Code of Practice for Safety and Health at Work for Manual Electric Arc Welding; and selecting the materials and tools required for repair work; and • Capable of conducting visual inspection and dimensional check on vehicle body panels and the surface of welding seams according to the specification provided by vehicle manufacturer and providing written report after the work.
Remark	The credits value of this unit of competency is set on the presumption that the practitioner concerned has already possessed basic knowledge of MIG/TIG and vehicle body structure. (This UoC replaced 108711L3)