Specification of Competency Standards
for the Automotive
Unit of Competency

Functional Area - Vehicle Servicing

Title	Conduct maintenance for special equipment and instruments for vehicle inspection
Code	111724L3
Range	This unit of competency is applicable in vehicle service or inspection workplaces. Practitioners should be able to conduct maintenance for special equipment and instruments for vehicle inspection according to the equipment manufacturer's manual.
Level	3
Credit	3 *(For Reference Only)*
Competency	**Performance Requirements** 1. Knowledge (Maintenance of special equipment and instruments for vehicle inspection) • Describe the maintenance manual of special equipment and instruments for vehicle inspection. • Master the technique for maintaining the instruments and equipment. 2. Performance (Conduct maintenance procedures of special equipment and instruments for vehicle inspection) • Conduct maintenance procedures of special equipment and instruments for vehicle inspection regularly according to the instructions in the equipment manufacturer's manual, including: ◦ Check, clean up, tune and calibrate ◦ Top up materials and replace consumable materials ◦ Keep and update the documents in relation to instruments and equipment, such as operating manuals, and maintenance records/information ◦ Keep, update, reset and upgrade computer software relevant to equipment • Maintain the special equipment and instruments for vehicle inspection, such as: ◦ Exhaust gas analysers ◦ Diesel smoke meters ◦ Chassis dynamometers and associated sub-systems ◦ Engine dynamometers and associated sub-systems ◦ Engine compression tester and thermometers ◦ Handheld testers and multimeters ◦ Brake testers and decelerometers ◦ Hoists, lifting gears and axle stands ◦ Wheel aligners ◦ Wheel balancers ◦ Headlamp aligners ◦ Refrigerant recovery and reclaim station ◦ Liquid and gaseous fuel pressure gauges ◦ Combustible gas leakage detection, extraction and warning devices/systems ◦ High-impedance multimeters and insulation testers ◦ Other special equipment and instruments for vehicle inspection

Assessment Criteria	The integrated outcome requirements of this unit of competency are that the practitioner being assessed shall prove that he/she is: • Capable of masterly conducting maintenance on special equipment and instruments for vehicle inspection according to the equipment manufacturer's manual; and • Capable of updating and maintaining the documents concerning the special equipment and instruments for vehicle inspection.
Remark	The credit value of this unit of competency is set on the presumption that the practitioner concerned has comprehensive knowledge of the working principles and operation of special equipment and instruments for vehicle inspection and general computer operational techniques. The major legislation/rules involved in this unit of competency are as follows: • Factories and Industrial Undertakings • Occupational Safety and Health • Environmental protection • Gas safety • (This UoC replaced 108708L3)