Specification of Competency Standards
for the Automotive
Unit of Competency

Functional Area - Vehicle Inspection and Prosecution

Title	Carry out roadworthiness inspection for vehicles
Code	111654L3
Range	This unit of competency is applicable in designated vehicle examination workplaces under legislative provision. Practitioners should be able to masterfully inspect the roadworthiness and mechanical fitness of various vehicle types according to the relevant regulations and guidelines.
Level	3
Credit	6 *(For Reference Only)*
Competency	**Performance Requirements** 1. Knowledge (Structure and operating principles of various vehicle types, and the standard of vehicle examination) • Conversant with the structure and operating principles of various vehicle types, including but not limited to different categories, traditional and new energy power systems, and associated safety precautions. • Master the legislative provisions under the Road Traffic Ordinance of Hong Kong in relation to vehicle inspection and the guidelines in the tester manual to determine if the structure and components can meet statutory requirements, including but not limited to mechanical systems, electrical systems, weight and dimensions. • Understand the relevant legal requirements for road and vehicle safety and environmental protection. 2. Performance (Carry out the roadworthiness inspection of vehicles) • According to the relevant regulations, guidelines in tester manual in tester manual and with reference to the instructions in the vehicle manufacturer's service manual, carry out the roadworthiness inspection visually and use specific equipment to judge the compliance with statutory requirements and roadworthiness of vehicles, identify the defects in: ◦ Powertrain, including power unit, exhaust emissions, transmission system, wheels and tyres ◦ Under-chassis systems, such as steering, brakes, suspension, etc. ◦ Driving controls, including seat belts ◦ Chassis and body structure, including windscreen, window glass and in-cab fittings ◦ Electrical systems, such as lighting, warning and wiper ◦ External energy charging inlet, high-voltage cables and associated system components (for electrified vehicle only) ◦ Pressure vessel, inlet and associated hose/pipe of fuel, including but not limited to hydrogen and liquefied petroleum gas (not applicable to motorcycles) ◦ Fuel cell unit and associated components (for fuel cell electric vehicle only) ◦ Additional electrical and mechanical fittings on board • Report cases of severe deficiencies and the vehicle that cannot meet the specifications to senior.
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 describing the structure and operating principles of various vehicle types, including but not limited to different categories, traditional and new energy power systems, and associated safety precautions; • Capable of inspecting vehicles visually and by the measuring results of specific equipment to identify defects; • Capable of judging the roadworthiness and mechanical fitness of various vehicle systems and components accurately according to the standards stipulated in relevant regulations, guidelines in the tester manual and with reference to the instructions of vehicle manufacturer's service manual; and • Capable of reporting cases of severe deficiencies and the vehicles that cannot be used on the road safely to seniors in a timely manner.
Remark	The credit value of this unit of competency is set on the presumption that the practitioner concerned already possesses extensive knowledge of vehicle servicing. The major legislation/rules involved in this unit of competency are as follows: • Road Traffic (Construction and Maintenance of Vehicles) Regulations • Occupational Safety and Health Ordinance • Environmental Protection Ordinance