Specification of Competency Standards
for the Automotive
Unit of Competency

Functional Area - Vehicle Inspection and Prosecution

Title	Conduct statutory roadworthiness inspections for various types of vehicles and verify the compliance of associated documents
Code	111649L4
Range	This unit of competency is applicable in designated vehicle examination workplaces under legislative provision. Practitioners should be able to professionally inspect the roadworthiness and mechanical fitness of various types of vehicles according to the relevant regulations and guidelines and verify the compliance of associated documents.
Level	4
Credit	6 *(For Reference Only)*
Competency	**Performance Requirements** 1. Knowledge (Structure and operating principles of various vehicle types, the standard and documentation for 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, advanced driver assistance systems, autonomous drive system and associated safety precautions. • Master the legislative provision under the Road Traffic Ordinance of Hong Kong in relation to vehicle inspection and the guidelines to determine the compliance of vehicle structure and operating systems with statutory requirements, including but not limited to mechanical systems, electrical systems, weight and dimensions. • Good understanding of the documentation system for vehicle examination and type approval of various vehicle types.

	2. Performance (Roadworthiness inspection for vehicles and associated document verification) • According to the relevant regulations and guidelines and with reference to the vehicle manufacturer's manual, safely conduct roadworthiness inspection with the assistance of specific equipment to judge the compliance with statutory requirements in roadworthiness and mechanical fitness of various vehicle types, including but not limited to the vehicles of categories L, M, N and O classified by the EU, traditional and new energy power systems, overall dimensions, weight and overhangs. • According to relevant regulations and with reference to the manufacturer's manual and certificates, professionally identify the defects and non-compliance in various vehicle systems, such as powertrain, under-chassis systems, driving controls, chassis, body structure and fittings, electrical systems, high-voltage electrical system (for electrified vehicles only), fuel cell system (for fuel cell electric vehicles only), pressure vessels and associated components, additional electrical and mechanical fittings on board, etc. • According to the relevant regulations and guidelines and with reference to the approval letters and certificates of the power and energy storage systems, verify the compliance of vehicle specifications, and conduct roadworthiness inspection and type approval for various vehicle types, including but not limited to the new energy vehicles of different categories. • According to the relevant regulations and the recognised supporting documents and certificates, determine the legality of autonomous drive and advanced driver assistance systems on board. • Verify the completeness and accuracy of the documents for vehicle examination.
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 explaining the structure and operating principles of the vehicle systems of various vehicle categories, including but not limited to power and energy storage systems, autonomous drive and advanced driver assistance systems, and associated safety precautions; • Capable of inspecting various types and categories of vehicles for roadworthiness and mechanical fitness according to relevant regulations, and professionally identifying their defects and non-compliant items, including but not limited to traditional and new energy power systems, energy storage, body specifications, powertrain, under-chassis systems, chassis and body fittings, high-voltage electrical systems, fuel cell systems, and additional electrical and mechanical fittings; • Capable of verifying the compliance of vehicle specifications and conducting the roadworthiness inspection and type approval for various types and categories of vehicles according to relevant regulations and guidelines and with reference to the approval letters and certificates; • Capable of determining the legality of autonomous drive and advanced driver assistance systems according to the relevant regulations and the recognised supporting documents and certificates; and • Capable of verifying the completeness and accuracy of the documents for vehicle examination.
Remark	The credit value of this unit of competency is set on the presumption that the practitioner concerned already possesses extensive knowledge of vehicles and a good understanding of legislative provision under the Road Traffic Ordinance.