Specification of Competency Standards
for the Automotive
Unit of Competency

Functional Area - Vehicle Servicing

Title	Execute performance tests on vehicles
Code	111751L4
Range	This unit of competency is applicable to the engineering staff in the vehicle service and inspection departments. Practitioners should be able to execute performance tests on vehicles according to testing procedures and methods established by the organisation, so as to ascertain the serviceability of vehicles.
Level	4
Credit	6 *(For Reference Only)*
Competency	**Performance Requirements** 1. Knowledge (Procedures of performance tests for various vehicle types) • Master the vehicle performance test procedures and methods established by the organisation. • Master specifications of vehicles and the standard parameters of performance tests (e.g., the manufacturer standard, approved international standard and respective regulations). • Master the operation, maintenance and calibration of various kinds of equipment for vehicle testing. 2. Performance (Execute performance tests for various vehicle types) • Execute the performance test procedures and record all data in qualified workplace equipped with adequate facilities according to the characteristics and standards of various testing items, including but not limited to: ◦ braking efficiency, steering response, riding comfort and cornering stability ◦ vehicle body tilt ◦ illumination and aim alignment ◦ engine power, fuel consumption and exhaust emission ◦ working noise ◦ automatic shift ◦ driving stability ◦ advanced driver-assistant system ◦ traction battery efficiency and state of health (electrified vehicle specific) ◦ traction motor power output and regeneration (electrified vehicle specific) ◦ fuel cell efficiency and hydrogen consumption (fuel cell electric vehicle specific) • Review the efficiency of the testing procedures, such as workflow, accuracy and human resources and compile report to make improvement suggestions on the testing or measuring methods for submission to seniors.
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 choosing and operating the suitable testing equipment and facilities for the performance tests; • Capable of executing vehicle performance tests (including the preparation before the test and environmental requirements) according to the testing procedures and methods established by the

	organization, and recording all relevant data for submission to senior engineering staff to ascertain the serviceability of vehicles; and • Capable of compiling reports to make improvement suggestions on the testing procedures and measuring methods for efficient and reliable testing results.
Remark	The credit value of this competency unit assumes that the practitioner has possessed a good understanding of the structure, operation, working principle and diagnosis of each vehicle system.