Specification of Competency Standards
for the Automotive
Unit of Competency

Functional Area - Vehicle Servicing

Title	Remove and replace motorcycle powertrain and associated components
Code	111689L2
Range	This unit of competency is applicable in motorcycle service workshops. Practitioners should be able to remove and replace motorcycle powertrains and associated components safely according to the instructions in the motorcycle manufacturer's service manual and the relevant requirements on environmental protection, occupational safety and health regulations. They should also be able to conduct basic tests on components and provide a work report upon completion of work.
Level	2
Credit	3 *(For Reference Only)*

Competency	**Performance Requirements**
	1. Knowledge (structure and basic operating principles of motorcycle powertrain and associated components)
	• Understand the structure and basic operating principles of motorcycle powertrains and associated components such as:
	  ○ Engine mechanical system
	  ○ Cooling and Lubrication systems
	  ○ Intake and exhaust system
	  ○ Fuel supply and ignition systems
	  ○ Drivetrain
	  ○ Starting and charging systems
	• Understand the structure of non-welded and non-structural motorcycle body panels for powertrain protection, such as fairings, cowlings, mudguards, screens, mirrors, luggage and fittings, etc.
	• With reference to the instructions in the motorcycle manufacturer's service manual and the requirements of relevant provisions under the Road Traffic Ordinance of Hong Kong, understand the general checking, repairing, removing and replacing procedures for the powertrain and associated components.
	• Understand the relevant legal requirements on road and vehicle safety and environmental protection.
	2. Performance (Remove and replace motorcycle powertrain and associated components)
	• According to the instructions in the motorcycle manufacturer's service manual and the requirements of occupational safety and health as well as that of environmental protection, safely remove and replace the motorcycle powertrain and associated components, including:
	  ○ Capable of identifying the general problems in motorcycle powertrains and associated components by visual inspection;
	  ○ Functional test of each powertrain unit and associated components; and
	  ○ Eliminate typical system failure.
	• Conduct performance and safety inspection after the work and provide a work report focusing on:
	  ○ Abnormalities
	  ○ Measured data
	  ○ Major decisions

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 removing and replacing motorcycle powertrain and associated components safely according to the instructions in the motorcycle manufacturer's service manual and the relevant requirements on environmental protection, occupational safety and health regulations; and • Capable of conducting basic tests on the powertrain units and associated components and providing work report upon completion of work.
Remark	The credit value of this unit of competency is set on the presumption that the practitioner concerned has already possessed general knowledge of motorcycle mechanical servicing. The major legislation/rule involved in this unit of competency is as follows: • Road Traffic (Construction and Maintenance of vehicles) Regulations • Occupational Safety and Health Ordinance (This UoC replaced 108676L2 and 108680L2)