

Specification of Competency Standards
for the Automotive Industry
Unit of Competency

Functional Area - Vehicle Servicing

Title	Remove and replace motorcycle engine power-train units and components
Code	108676L2
Range	This unit of competency is applicable in motor cycle servicing workshops. Practitioners should be able to remove and replace motorcycle engine power-train units and components safely according to the instructions in the motorcycle manufacturer's servicing manual and the relevant requirements on environment, occupational safety and health regulations. They should also be able to conduct basic tests on components upon completion of work and providing written report.
Level	2
Credit	3 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Knowledge (Structure and basic operating principles of motorcycle engine power-train units and components)</p> <ul style="list-style-type: none"> • Understand the structure and basic operating principles of motorcycle engine power-train units and components such as: <ul style="list-style-type: none"> ○ Engine mechanical systems ○ Cooling systems ○ Intake and exhaust systems ○ Fuel and ignition systems ○ Lubrication systems ○ Clutch ○ Transmission and Final drive ○ Starting and Charging • With reference to the instructions in the motorcycle manufacturer's servicing manual and the requirements of relevant provisions under the Road Traffic Ordinance of Hong Kong, understand the general checking and repairing procedure for the components. • Understand the relevant legal requirements on road and vehicle safety and environment protection. <p>2. Performance (Remove and replace motorcycle engine power-train units and components)</p> <ul style="list-style-type: none"> • According to the instructions in the motorcycle manufacturer's servicing manual and the requirements of occupational safety and health as well as that of environmental protection, safely remove and replace motorcycle engine power-train units and components, including: <ul style="list-style-type: none"> ○ Capable of identifying the general problems in motorcycle engine power-train units and components by visual inspection ○ Functional test of each engine power-train units and components ○ Eliminate typical system failure • Conduct performance and safety inspection after the work and provide written report focusing on: <ul style="list-style-type: none"> ○ Abnormalities ○ Measured data ○ Major decisions
Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are that the practitioner being assessed shall prove that he/she is:</p> <ul style="list-style-type: none"> • Capable of removing and replacing motorcycle engine power-train units and components safely according to the instructions in the motorcycle manufacturer's

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	<p>servicing manual and the relevant requirements on environment, occupational safety and health regulations; and</p> <ul style="list-style-type: none">• Capable of conducting basic tests on components upon completion of work and providing written report.
Remark	<p>The credits value of this unit of competency is set on the presumption that the practitioner concerned has already possessed basic knowledge of motorcycle mechanical servicing.</p> <p>The major legislation/rule involved in this unit of competency is as follows:</p> <ul style="list-style-type: none">• Road Traffic (Construction and Maintenance of vehicles) Regulations