

Specification of Competency Standards
for the Automotive Industry
Unit of Competency

Functional Area - Vehicle Servicing

Title	Remove and replace commercial vehicle engine units and components
Code	108685L2
Range	This unit of competency is applicable in commercial vehicle servicing workshops. Practitioners should be able to remove and replace commercial vehicle engine units and components safely according to the instructions in the commercial vehicle manufacturer's service 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 provide written report.
Level	2
Credit	3 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Knowledge (Structure and basic operating principles of commercial vehicle engine units and components)</p> <ul style="list-style-type: none"> • Understand the structure and basic operating principles of commercial vehicle engine units and components including: <ul style="list-style-type: none"> ○ Engine mechanical systems ○ Cooling systems ○ Intake and exhaust systems ○ Fuel systems ○ Lubrication systems ○ Electrical systems • Understand the general checking and repairing procedures for the components with reference to the instructions in the commercial vehicle manufacturer's service manual. • Understand the relevant legal requirements on road & vehicle safety and environment protection. <p>2. Performance (Remove and replace commercial vehicle engine power-train units and components)</p> <ul style="list-style-type: none"> • According to the manufacturer's service manual and relevant legal requirements concerning occupational safety & health and environmental protection, safely remove, replace commercial vehicle engine, power-train units and components, including: <ul style="list-style-type: none"> ○ Being capable of identifying general problems in commercial vehicle engine, power-train units and components by visual inspection ○ Functional test and assessment of the effectiveness of all components ○ Elimination of typical system failures • Conduct performance and safety inspection after the work and provide written report, focusing on: <ul style="list-style-type: none"> ○ Abnormalities ○ Measuring 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 commercial vehicle engine, power-train units and components safely in accordance with manufacturer service manual, relevant legal requirements and the relevant requirements on environment, occupational safety and health regulations; and

Specification of Competency Standards
for the Automotive Industry
Unit of Competency

Functional Area - Vehicle Servicing

	<ul style="list-style-type: none">• Capable of conducting basic tests on components upon completion of work with 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 commercial vehicle mechanical servicing.</p> <p>The major legislation / code involved in this unit of competency is as follows:</p> <ul style="list-style-type: none">• Road Traffic (Construction and Maintenance of vehicles) Regulations• Factories and Industrial Undertakings (Lifting Appliances and Lifting gear) Regulations