## Specification of Competency Standards for the Automotive Industry Unit of Competency

## Functional Area - Vehicle Servicing

Title	Diagnose and rectify commercial vehicle engine and components faults
Code	108722L3
Range	This unit of competency is applicable in commercial Vehicle servicing workshops. Practitioners should be able masterly to conduct complicated fault diagnosis on commercial Vehicle engine and components and conduct or arrange rectification 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 functional tests and complete simple fault report upon completion of work and providing written report.
Level	3
Credit	3 (For Reference Only)
Competency	Performance Requirements  1. Knowledge (Structure and operating principles of commercial Vehicle engine and components)
	<ul> <li>Master the structure and operating principles of commercial Vehicle engine and components.</li> <li>Master the fault diagnosis process for commercial Vehicle engine and components with reference to the instructions in the commercial Vehicle manufacturer's service manual:         <ul> <li>Faults occur within:</li> <li>Engine mechanical systems</li> <li>Engine electrical and electronic systems</li> <li>Engine hydraulic and fluid systems</li> <li>Equipment used:                  <ul></ul></li></ul></li></ul>
Assessment Criteria	<ul> <li>The integrated outcome requirements of this unit of competency are that the practitioner being assessed shall prove that he/she is:</li> <li>Capable of conducting complicated fault diagnosis on commercial vehicle engine and components according to the instructions in the manufacturer's service manual and the relevant requirements on environment, occupational safety and health regulations; and</li> <li>Capable of conducting or arranging rectification according to diagnostic results;</li> </ul>

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	<ul> <li>Capable of conducting functional tests and completing simple fault report upon completion of work and providing working report.</li> <li>Capable of assessing the emission or smoke according to the relevant legislation on emission control.</li> </ul>
Remark	The credits value of this unit of competency is set on the presumption that the practitioner concerned has already possessed the knowledge of operation of commercial Vehicle engine and components.
	The major legislations/code involved in this unit of competency are as follows:
	<ul> <li>Road Traffic (Construction and Maintenance of Vehicles) Regulations.</li> </ul>