

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

Functional Area - Vehicle Servicing

Title	Conduct fault diagnosis on vehicle transmission systems
Code	108700L3
Range	This unit of competency is applicable in vehicle servicing workshops. Practitioners should be able masterly to conducting complicated fault diagnosis on vehicle transmission systems and conduct or arrange rectification according to the instructions in the vehicle manufacturer's service manual and the relevant requirements on environment, occupational safety and health regulations. They should also be able to conduct system tests and providing written report upon completion of work.
Level	3
Credit	3 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Knowledge (Structure and operating principles of various types of vehicle transmission systems)</p> <ul style="list-style-type: none"> <li>• Good understanding of the structure and operating principles of various types of vehicle transmission systems (e.g. electronic control automatic transmission, continuously variable transmission, limited slip differential).</li> <li>• With reference to the vehicle manufacturer's servicing instructions, understand the fault diagnosis process for various types of vehicle transmission systems, such as inspection of automatic transmission hydraulic system and electronic transmission system.</li> <li>• Master the vehicle transmission system diagnosis and the operation of testing equipment and instruments.</li> </ul> <p>2. Performance (Conduct fault diagnosis on vehicle transmission systems)</p> <ul style="list-style-type: none"> <li>• Accurately conduct complicated fault diagnosis on various types of vehicle transmission systems according to the instructions in the vehicle manufacturer's service manual and the requirements of occupational health and safety and that of environmental protection, including the use of special equipment and instruments to assist the diagnostic process</li> <li>• Conduct or arrange rectification to eliminate the fault according to diagnostic results.</li> <li>• Accurately conduct test of transmission systems, including using relevant equipment and instruments to conduct the tests.</li> <li>• Provide written report after confirming that rectification is done.</li> </ul>
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"> <li>• Capable of accurately conducting complicated fault diagnosis on various types of vehicle transmission systems according to the instructions in the vehicle manufacturer's service manual and the relevant requirements on environment, occupational safety and health regulations;</li> <li>• Capable of conducting or arranging rectification for various types of vehicle transmission systems according to diagnostic results; and</li> <li>• Capable of conducting tests on vehicle transmission systems and providing written report upon completion of work.</li> </ul>
Remark	The credits value of this unit of competency is set on the presumption that the practitioner concerned has already possessed basic knowledge of inspecting and repairing various types of vehicle transmission systems.