

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

Functional Area - Vehicle Servicing

Title	Conduct fault diagnosis on vehicle chassis units and components
Code	108698L3
Range	This unit of competency is applicable in vehicle servicing workshops. Practitioners should be able masterly to conduct complicated fault diagnosis on vehicle chassis systems and components 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	6 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Knowledge (Structure and operating principles of vehicle chassis systems and components)</p> <ul style="list-style-type: none"> <li>• Be familiar with the structure and operating principles of vehicle chassis systems and components, such as: <ul style="list-style-type: none"> <li>○ Braking systems</li> <li>○ Steering systems</li> <li>○ Suspension systems</li> </ul> </li> <li>• With reference to the vehicle manufacturer's servicing instructions and the requirements of relevant local road traffic ordinances, understand the fault diagnosis process for vehicle chassis systems and components.</li> <li>• Be familiar with vehicle chassis systems and components diagnosis and the operation of testing equipment and instruments.</li> <li>• Understanding of the relevant legal requirements on road and vehicle safety and environment protection.</li> </ul> <p>2. Performance (Conduct fault diagnosis on vehicle chassis systems and components)</p> <ul style="list-style-type: none"> <li>• Conduct complicated fault diagnosis on vehicle chassis systems and components 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 vehicle chassis systems and components, including the use of relevant equipment and instrument to conduct test.</li> <li>• Conduct performance and safety inspection after the work and provide written report focusing on: <ul style="list-style-type: none"> <li>○ Abnormalities</li> <li>○ Measured data</li> <li>○ Major decisions</li> </ul> </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 masterly conducting complicated fault diagnosis on vehicle chassis systems and components according to the instructions in the vehicle manufacturer's service manual and Be familiar with;</li> <li>• Capable of conducting or arranging rectification for vehicle chassis systems and components according to diagnostic results; and</li> <li>• Capable of conducting tests on vehicle chassis systems and components and providing written report upon completion of work.</li> </ul>

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Remark	<p>The credits value of this unit of competency is set on the presumption that the practitioner concerned has already possessed the knowledge of inspecting and repairing vehicle chassis systems and components.</p> <p>The major ordinance involved in this unit of competency is as follows:</p> <ul style="list-style-type: none"><li>• Relevant ordinances to the Road Traffic (Construction and Maintenance of vehicles) Regulations</li></ul>
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