

Specification of Competency Standards
for the Automotive Industry
Unit of Competency

Functional Area - Vehicle Servicing

Title	Diagnose and rectify motorcycle chassis systems faults
Code	108719L3
Range	This unit of competency is applicable in motorcycle servicing workshops. Practitioners should be able to conduct complicated fault diagnosis on motorcycle chassis systems and implementing or arranging rectification according to the instructions in the motorcycle manufacturer's service manual and the relevant requirements on environment, occupational safety and health regulations. They should also be able of conduct functional 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 motorcycle chassis systems)</p> <ul style="list-style-type: none"> • Have good understanding of the structure and operating principles of motorcycle chassis systems, including: <ul style="list-style-type: none"> ○ Steering systems ○ Suspension systems ○ Brake systems • Master the fault diagnosis process for motorcycle chassis systems with reference to the instructions in the motorcycle manufacturer's service manual: <ul style="list-style-type: none"> ○ Faults occur within: <ul style="list-style-type: none"> ▪ Mechanical systems ▪ Electrical and electronic systems ▪ Hydraulic systems ○ Equipment used: <ul style="list-style-type: none"> ▪ Diagnostic and rectification equipment for various systems ▪ Special repair tools • Understand relevant legal requirements on road & safety and environment protection. <p>2. Performance (Conduct diagnosis and rectify motorcycle chassis systems faults)</p> <ul style="list-style-type: none"> • Accurately conduct fault diagnosis on motorcycle chassis systems according to the instructions in the manufacturer's service manual including using special equipment and instruments to assist the diagnosis, meeting the requirements concerning occupational health and safety and that of environmental protection. • According to the diagnostic result to implement the rectification work. • Conduct functional tests. • Conduct performance and safety inspection after the work and provide written report, focusing: <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 conducting complicated fault diagnosis on motorcycle chassis systems according to the instructions in the manufacturer's service manual and the relevant requirements on environment, occupational safety and health regulations; • Capable of implementing or arranging rectification according to diagnostic results; and

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	<ul style="list-style-type: none">• Capable of conducting performance tests and providing working report upon completion of work
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 operation of motorcycle chassis systems.</p> <p>The major legislations/code involved in this unit of competency are as follows:</p> <ul style="list-style-type: none">• Road Traffic (Construction and Maintenance of Vehicles) Regulations.