

Specification of Competency Standards
for the Automotive Industry
Unit of Competency

Functional Area - Vehicle Servicing

Title	Service and repair non-live electric and hybrid vehicle systems
Code	108691L2
Range	This unit of competency is applicable in electric and hybrid vehicle servicing workshops. Practitioners should be able to service and repairing non-live electric and hybrid vehicle systems safely according to the instructions in the electric and hybrid 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 providing written report.
Level	2
Credit	3 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Knowledge (The non-live electric and hybrid vehicle systems)</p> <ul style="list-style-type: none"> • Understand the non-live systems and components of an electric and hybrid vehicle, such as: <ul style="list-style-type: none"> ○ Battery system and components ○ Electric Motor ○ Converter ○ Control and meter console ○ Drive units ○ Power source ○ Other auxiliary systems • Service and repair procedure according to the instructions in the electric and hybrid vehicle manufacturer's service manual. • Understanding of the relevant legal requirements on road & vehicle safety, and environment protection. <p>2. Performance (Service and repair on the non-live electric and hybrid vehicle systems)</p> <ul style="list-style-type: none"> • According to the instructions in the electrical and hybrid vehicle manufacturer's servicing manual and the requirements of occupational safety and health as well as that of environmental protection, safely process service and repair on the non-live electric and hybrid vehicle systems, including: <ul style="list-style-type: none"> ○ Capable of identifying the common faults in the components by visual inspection ○ Testing and assess the operation and effectiveness of the component. ○ Remove, change and reinstall the components ○ Rectify typical system faults • Conduct performance and safety inspection after the work and provide written report focusing on: <ul style="list-style-type: none"> ○ Abnormalities ○ Measured 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 service and repair on non-live electric and hybrid vehicle systems safely according to the instructions in the electric and hybrid vehicle manufacturer's servicing manual and the relevant requirements on environment, occupational safety and health regulations; and

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	<ul style="list-style-type: none">• Capable of conducting basic tests on components upon completion of work and provide working 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 in operation of electric and hybrid vehicle.</p> <p>The major ordinance involved in this unit of competency is as follows:</p> <ul style="list-style-type: none">• Relevant ordinances to the Road Traffic (Construction and Maintenance of vehicles) Regulations