

Specification of Competency Standards
for the Automotive Industry
Unit of Competency

Functional Area - Vehicle Servicing

Title	Dismantle and replace various kinds of vehicle electric systems and accessories
Code	108636L1
Range	This unit of competency is applicable in vehicle servicing workshops. Practitioners should be able to dismantle, replace and re-assemble the components of vehicle electric systems under instruction in routine working environment and conduct tests on basic components upon completion of work and providing written report.
Level	1
Credit	6 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Knowledge (The components of general vehicle electric systems)</p> <ul style="list-style-type: none"> • Understand the names, formation and functions of general vehicle systems and their components. • Understand the names, location and functions of the components of general vehicle electric systems. • Understand basic electrical and electronic theory, and capable of checking the circuit systems/components by general electrical tools or equipment. • Understand the procedure of dismantling, replacing and re-assembling components of general vehicle electric systems. • Understanding of the relevant legal requirements on road and vehicle safety and environment protection. <p>2. Performance (Dismantle, replace and re-assemble the components of general vehicle electric systems)</p> <ul style="list-style-type: none"> • In accordance with instructions, capable of dismantling, replace and re-assemble the components of general vehicle electric systems and their accessories under supervision in a familiar working environment, such as: <ul style="list-style-type: none"> ○ Battery, starter and charging systems ○ Lighting, signals and meter instrument systems ○ Wiper, electric window and central lock systems ○ Anti-theft, audio and visual system ○ Air-conditioning and ventilation systems ○ Electronic control systems ○ Other related systems • Conduct performance and safety inspection after the work and provide written report.
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 describing the names, formation, location and functions of various kinds of vehicle electric systems and components correctly; and • Capable of dismantling, replacing and re-assembling the components of general vehicle electric systems correctly in routine working environment and under supervision and providing written report after the work
Remark	The credits value of this unit of competency is set on the presumption that the practitioner concerned has already possessed the skills of using general vehicle servicing tools and the maintenance of electric appliances.