

Specification of Competency Standards
for the Automotive Industry
Unit of Competency

Functional Area - Vehicle Servicing

Title	Conduct fault diagnosis and analysis on vehicle wiper, electric door and window systems
Code	108705L3
Range	This unit of competency is applicable in vehicle servicing workshops. Practitioners should be able to independently check and repairing as well as conduct diagnosis and analysis on vehicle wiper, electric door and window systems according to the instructions in the vehicle manufacturer's servicing manual and the relevant requirements on environment, occupational safety and health regulations masterly. They should also be able to conduct system tests and evaluation 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 vehicle wiper, electric door and window systems)</p> <ul style="list-style-type: none"> • Good understanding of the structure and operating principles of vehicle wiper and electric door and window systems. • Good understanding of the inspection and maintenance procedure for wiper, electric door and window systems according to the instructions in the vehicle manufacturer's servicing manual. • Understand the relevant legal requirements on road and vehicle safety and environment protection. <p>2. Performance (Conduct fault diagnosis and analysis on vehicle wiper, electric door and window systems)</p> <ul style="list-style-type: none"> • Safely conduct fault diagnosis on vehicle wiper, electric door and window systems and repair them according to the information in the vehicle manufacturer's servicing manual and the requirements of occupational safety and health as well as environmental protection, including: <ul style="list-style-type: none"> ○ Find out common problems of vehicle wiper, electric door and window systems by visual inspection ○ Select suitable tools or instruments to inspect and measure relevant systems ○ Determine, analyse and evaluate system faults according to the data obtained by measurement ○ Conduct repairing work for relevant systems according to different faults found; work may include dismantle, replace, re-assemble and fine-tune relevant system components and accessories ○ With the use of suitable tools or instruments, accurately evaluate if the relevant systems can meet the requirements and are up to standard upon completion of work ○ Provide written report after confirming that rectification is done.
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 independently conducting complicated fault diagnosis on vehicle wiper, electric door and window systems according to the instructions in the vehicle manufacturer's servicing manual and the relevant requirements on environment, occupational safety and health regulations; • Capable of implementing or arranging rectification work for relevant systems according to diagnostic results; and

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	<ul style="list-style-type: none">• Capable of conducting tests and evaluation on vehicle wiper, electric door and window systems and providing written report upon completion of work.
Remark	The credits value of this unit of competency is set on the presumption that the practitioner concerned has already possessed the knowledge of vehicle electronic and electric systems servicing.