

Specification of Competency Standards
for the Automotive Industry
Unit of Competency

Functional Area - Vehicle Servicing

Title	Conduct fault diagnosis on vehicle lighting systems, signalling systems, meter instruments and displaying systems
Code	108704L3
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 lighting systems, signalling systems, meter instruments and displaying 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 capable of conducting 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 lighting systems, signaling systems, meter instruments and displaying systems)</p> <ul style="list-style-type: none"> • Good understanding of relevant local statutory requirements of vehicle lighting, signaling and displaying systems. • Good understanding of the structure and operating principles of vehicle lighting systems, signaling systems, meter instruments and displaying systems. • Good understanding of the principles of lighting, electricity and electronics. • Know about general electric/electronic tools or instruments. • Understand the general inspection and maintenance procedure for vehicle lighting systems, signaling systems, meter instruments and displaying systems according to the requirements stated in the vehicle manufacturer's servicing manual. <p>2. Performance (Conduct fault diagnosis on vehicle lighting systems, signaling systems, meter instruments and displaying systems)</p> <ul style="list-style-type: none"> • Safely conduct fault diagnosis on vehicle lighting systems, signalling systems, meter instruments and displaying 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 lighting systems, signalling systems, meter instruments and displaying systems by visual inspection ○ Select suitable tools or instruments to inspect and measure the systems and capable of analysing and evaluate system faults according to different circumstances • Check and repair faulty systems and circuits; 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 upon completion of work. • Provide written report after confirming that rectification is done. • Capable of assessing if the vehicle lighting systems and signalling systems can meet the local statutory requirement.
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 accurately conducting complicated fault diagnosis on vehicle lighting systems, signalling systems, meter instruments and displaying systems according to the

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	<p>instructions in the vehicle manufacturer's servicing manual and the relevant requirements on environment, occupational safety and health regulations;</p> <ul style="list-style-type: none">• Capable of implementing or arranging rectification work for relevant systems according to diagnostic results; and• Capable of conducting relevant system tests and evaluation and providing written report upon completion of work.
Remark	<p>The major ordinance involved in this unit of competency is as follow relevant ordinances, such as:</p> <ul style="list-style-type: none">• Road Traffic Ordinance• Road Traffic (Construction and Maintenance of vehicles) Regulations