

**Specification of Competency Standards**  
**for the Automotive Industry**  
**Unit of Competency**

Functional Area - Vehicle Servicing

|                     |   |
|---------------------|---|
| Title               | Remove and replace commercial vehicle electrical units and components   |
| Code                | 108686L2  |
| Range               | This unit of competency is applicable in commercial vehicle servicing workshops. Practitioners should be able to remove and replace commercial vehicle electrical units and components safely according to the instructions in the commercial 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 (Structure and basic operating principles of commercial vehicle electrical units and components)</p> <ul style="list-style-type: none"> <li>• Understanding of the structure and basic operating principles of commercial vehicle electrical units and components, including: <ul style="list-style-type: none"> <li>○ Lighting systems</li> <li>○ Wiper systems</li> <li>○ Security and alarm systems</li> <li>○ Comfort and convenience systems</li> <li>○ Audio systems</li> <li>○ Communication systems</li> <li>○ Electric window systems</li> <li>○ Monitoring and instrumentation systems</li> </ul> </li> <li>• Understanding of the general removal and replacement procedures for the components according to the instructions in the commercial vehicle manufacturer's service manual</li> <li>• Understanding of the relevant legal requirements on road &amp; vehicle safety, and environment protection.</li> </ul> <p>2. Performance (Remove and replace commercial vehicle electrical units and components)</p> <ul style="list-style-type: none"> <li>• According to the instructions in the commercial vehicle manufacturer's service manual and the legal requirements of occupational safety and health as well as those of environmental protection, safely remove and replace commercial vehicle electrical units and components, including: <ul style="list-style-type: none"> <li>○ Being capable of identifying general problems in commercial vehicle electrical units and components by visual inspection</li> <li>○ Functional test of each electrical units and components</li> <li>○ Elimination of typical system failures</li> </ul> </li> <li>• Conduct performance and safety inspection after the work and provide written report focusing on: <ul style="list-style-type: none"> <li>○ Abnormalities</li> <li>○ Measured data</li> <li>○ Major decisions</li> </ul> </li> </ul> |
| 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"> <li>• Capable of removing and replacing commercial vehicle electrical units and components safely in accordance with manufacturer's service manual and the relevant requirements on environment, occupational safety and health regulations; and</li> </ul>   |

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|        | <ul style="list-style-type: none"><li>• Capable of conducting basic tests on components upon completion of work with written report.</li></ul>  |
| Remark | <p>The credits value of this unit of competency is set on the presumption that the practitioner concerned has already possessed basic knowledge of commercial vehicle electrical and mechanical servicing.</p> <p>The major legislation/code involved in this unit of competency is as follows:</p> <ul style="list-style-type: none"><li>• Road Traffic (Construction and Maintenance of vehicles) Regulations</li></ul> |