

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

1. Title	Check and repair vehicle battery, charging and starting systems
2. Code	AUSDST212A
3. Range	This unit of competency is applicable in vehicle servicing workshops. Practitioners should be capable to check the condition of vehicle battery; test and repair vehicle charging and starting systems safely according to the instructions in the vehicle manufacturer's servicing manual. They should also be capable to conduct basic tests of components upon completion of work.
4. Level	2
5. Credits	3(for reference only)
6. Competency	<u>Performance Requirements</u>
	<p>6.1 Understand the structure and basic operating principles of battery, charging, electric supply and starting systems</p> <ul style="list-style-type: none"> <li>◆ Understand the structure and basic operating principles of battery, charging, electric supply and starting systems</li> <li>◆ Understand the specification, maintenance and safety rules of battery and the methods of handling battery</li> <li>◆ Understand basic electric power transfer and the principle of power generation</li> <li>◆ Know about general electric tools and instruments</li> <li>◆ According to the instructions in the vehicle manufacturer's servicing manual, understand the general checking and repairing procedure for battery, charging, electric supply and starting systems</li> </ul>

	<p>6.2 Check and repair vehicle battery, charging, electric supply and starting systems ♦ According to the instructions in the vehicle manufacturer's servicing manual and the requirements of occupational safety and health as well as that of environmental protection, safely inspect and repair vehicle battery, charging, electric supply and starting systems, including:</p> <ul style="list-style-type: none"> <li>• Capable to identify the common faults in vehicle battery, charging, electric supply and starting systems by visual inspection</li> <li>• Use specified tools or instruments to inspect and measure the value of specific gravity of lead acid battery and the effectiveness of electric discharge; and carry out appropriate maintenance work</li> <li>• Replace battery</li> <li>• Handle and dispose battery in accordance with environmental protection ordinances</li> <li>• Check and repair the parts/components of vehicle charging, electric supply and starting systems as well as circuit control components, including dismantle, replace and re-assemble relevant system components</li> <li>• Use specified tools or instruments to measure the effectiveness of relevant systems upon completion of work</li> </ul>
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7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> <li>(i) Capable to check and repair general vehicle battery, charging and starting systems safely according to the instructions in the vehicle manufacturer's servicing manual;</li> <li>(ii) Capable to conduct basic tests of components upon completion of work; and</li> <li>(iii) Capable to charge and handle (including dispose of) battery in accordance with the requirements of the Occupational Safety and Health Ordinance and environmental protection ordinances.</li> </ul>
8. Remarks	<p>The credits value of this unit of competency is set on the presumption that the people concerned already possess basic knowledge of vehicle electrical systems servicing.</p>