

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

Functional Area - Vehicle Servicing

Title	Perform Vehicle body welding
Code	108644L2
Range	This unit of competency is applicable in vehicle body repair workshops and body assembly workshops. Practitioners should be able to employ welding techniques (including Oxyacetylene Welding/ cutting and MIG) to perform general vehicle body welding process and providing written report after the work
Level	2
Credit	3 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Knowledge (Vehicle body welding process)</p> <ul style="list-style-type: none"> <li>• Understand the standard requirement of the work-piece set by the vehicle manufacturer.</li> <li>• Understand welding process <ul style="list-style-type: none"> <li>○ Oxyacetylene Welding</li> <li>○ Arc Welding</li> <li>○ MIG.</li> </ul> </li> <li>• Know about flaws commonly found in welding seams, such as: <ul style="list-style-type: none"> <li>○ Burning through</li> <li>○ Slag inclusion</li> <li>○ Air hole.</li> </ul> </li> <li>• Understanding of the relevant legal requirements on road and vehicle safety and environment protection.</li> </ul> <p>2. Performance (Vehicle body welding)</p> <ul style="list-style-type: none"> <li>• Select suitable welding equipment according to the requirement of work-piece; establish welding procedure and safety measures.</li> <li>• Prepare work-piece, such as align mating parts and protect other portions of the vehicle being affected by welding.</li> <li>• Carry out welding process and provide written report after the work.</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 knowing about the hazards caused by the welding process and relevant rules of safety;</li> <li>• Capable of selecting suitable welding equipment to carry out welding process; and</li> <li>• Capable of checking welding seams and rectify the flaws upon completion of work.</li> </ul>
Remark	<p>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 welding equipment and the basic knowledge of vehicle body structure.</p> <p>The relevant ordinances/rules involved in this unit of competency are as follows:</p> <ul style="list-style-type: none"> <li>• Factories and Industrial Undertakings (Gas Welding and Flame Cutting) Regulations</li> <li>• Code of Practice - Safety and Health at Work for Gas Welding and Flame Cutting</li> <li>• Code of Practice - Safety and Health at Work for Manual Electric Arc Welding</li> </ul>