

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

1. Title	Use general welding equipment
2. Code	AUSDCN210A
3. Range	This unit of competency is applicable in vehicle body servicing and vehicle body assembling workshops. Practitioners should be capable to use welding equipment correctly under instructions, such as Oxyacetylene Welding/cutting, Gas Metal Arc Welding (MIG) and Resistance Spot Welding (SPOT) to perform general welding process.
4. Level	2
5. Credits	3(for reference only)
6. Competency	<p style="text-align: right;"><u>Performance Requirements</u></p> <p>6.1 Know about the equipment and safety rules of Oxyacetylene Welding, MIG and SPOT</p> <ul style="list-style-type: none"> <li>◆ Identify the hazards caused by the process of Oxyacetylene Welding/cutting, MIG and SPOT, such as: <ul style="list-style-type: none"> <li>• electric shock</li> <li>• fire and explosion</li> <li>• gas and smoke</li> <li>• harmful to eyesight</li> <li>• being burnt</li> </ul> </li> <li>◆ Understand the code of practice and safety guidelines on the operation of Oxyacetylene Welding/ cutting, MIG and SPOT</li> <li>◆ Understand the welding parameters affecting weld seams, such as: <ul style="list-style-type: none"> <li>• Gas flow</li> <li>• Welding current</li> <li>• Welding speed</li> <li>• Welding voltage</li> <li>• The angle of welding gun</li> </ul> </li> </ul>

	<p>6.2 Use welding equipment to conduct welding</p> <ul style="list-style-type: none"> <li>◆ Examine the condition of the workplace to ensure that welding work is performed in a suitable working environment and appropriate protective measures are adopted</li> <li>◆ Select welding equipment and materials such as welding rods correctly</li> <li>◆ Operate welding equipment and employ correct welding method and procedure to prevent any flaws on the surface of the welding seams</li> <li>◆ Use suitable tools for grinding</li> <li>◆ Examine the welding joints upon completion of work</li> <li>◆ Comply with the legislative requirements of Oxyacetylene Welding, MIG and SPOT, as well as relevant working and safety guidelines</li> <li>◆ Prevent toxic gas and smoke intoxication</li> </ul>
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to use welding equipment to carry out welding procedure safely in accordance with the instructions in the manufacturer's user manual; also capable to select suitable materials and tools necessary for welding process; and</p> <p>(ii) Capable to check the welding seams upon completion of work.</p>
8. Remarks	<p>The relevant ordinances/rules involved in this unit of competency are as follows:</p> <ol style="list-style-type: none"> <li>1. Code of Practice-Safety and Health at Work for Gas Welding and Flame Cutting</li> <li>2. Code of Practice-Safety and Health at Work for Manual Electric Arc Welding</li> </ol>