

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

1. Title	Assemble air-conditioning systems
2. Code	AUSDBB205A
3. Range	This unit of competency is applicable in vehicle body building workshops. Practitioners should be capable to carry out assembling procedure for air-conditioning systems in accordance with working instructions and working drawing as well as actual worksite condition.
4. Level	2
5. Credits	6(for reference only)
6. Competency	<p style="text-align: center;"><b><u>Performance Requirements</u></b></p> <p>6.1 Understand the structure and basic operating principles of air cooling and air-conditioning systems in vehicles</p> <ul style="list-style-type: none"> <li>◆ Understand the characteristics of refrigerants, relevant handling procedure and legal requirements</li> <li>◆ Understand the structure and basic operating principles of air cooling and air-conditioning systems in vehicles</li> <li>◆ Understand the installation and inspection procedure for air cooling and air-conditioning systems in vehicles according to manufacturer's instructions</li> </ul> <p>6.2 Carry out the assembling procedure for air-conditioning systems in vehicles</p> <ul style="list-style-type: none"> <li>◆ Safely assemble the air-conditioning systems in vehicles according to relevant legislative provisions, instructions in the manufacturer's assembling manual and the requirements of occupational safety and health as well as that of environmental protection, including: <ul style="list-style-type: none"> <li>• Select and use appropriate personal protective equipment correctly</li> <li>• Assemble air-conditioning systems in vehicles</li> </ul> </li> </ul>

	<ul style="list-style-type: none"> <li>• Carry out the assembling procedure according to the respective rules of the workshops and instructions</li> <li>• Use prescribed tools and instruments to charge the refrigerants into the air-conditioning systems correctly to ensure that the refrigerants will not leak out; and conduct leakage test</li> <li>• Connect relevant wires and pipes</li> <li>◆ Capable to inspect and test the systems upon completion of work to ensure that the requirements of manufacturing specification are met</li> </ul>
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 select suitable tools and materials correctly according to the content in the manufacturer's assembling manual;</li> <li>(ii) Capable to assemble air-conditioning systems in vehicles according to the content in the manufacturer's assembling manual;</li> <li>(iii) Capable to charge refrigerants into the air-conditioning systems and conduct leakage test; and</li> <li>(iv) Capable to inspect and test the systems upon completion of work.</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 how to repair vehicle electric systems and handle refrigerants.</p>