

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

1. Title	Carry out painting process
2. Code	AUSDST227A
3. Range	This unit of competency is applicable in vehicle painting workshops. Practitioners should be capable to carry out vehicle body painting work according to working instructions or the guidelines in the vehicle manufacturer's servicing manual.
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 Know about painting materials and spray guns</p> <ul style="list-style-type: none"> <li>◆ Understand the composition and characteristics of primer paint and finish paint, including waterborne paint</li> <li>◆ Understand the characteristics and operating principles of various kinds of spray guns, including high volume low pressure (HVLP) spray guns</li> <li>◆ Understand the content of Material Safety Data Sheet (MSDS) with respect to paints, catalysts and dissolvent, including protective measures</li> <li>◆ Understand the characteristics of the materials of different work-piece and painting methods</li> <li>◆ Understand the painting process and the reasons for paint defects</li> </ul>

	<p>6.2 Carry out painting process</p> <ul style="list-style-type: none"> <li>◆ Use appropriate personal protective equipment correctly</li> <li>◆ Carry out various working procedures according to environmental protection ordinances and requirements</li> <li>◆ Carry out the established working guidelines on dangerous goods, pollutants and chemical waste</li> <li>◆ Observe the condition of the workplace and should carry out painting process in the spray booth equipped with anti-pollution control device; and capable to minimize material consumption</li> <li>◆ Select and use suitable tools and instruments; and apply relevant painting techniques correctly with regard to the characteristics of different spray guns</li> <li>◆ Operate spray booth ; infra-red car paint curer, also control the temperature and time accurately</li> <li>◆ Complete the painting process according to the guidelines in the vehicle manufacturer manual, the occupational safety and health as well as environmental protection ordinances and Factories and Industrial Undertakings (Spraying of Flammable liquids) Regulations</li> <li>◆ Conduct inspection upon completion of painting process to ensure that no paint defects</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 select and adjust spray guns and other devices according to working instructions or the guidelines in the vehicle manufacturer's servicing manual to carry out painting process; and</li> <li>(ii) Capable to conduct inspection upon completion of painting process to ensure that no paint defects.</li> </ul>
8. Remarks	<p>The credits value of this unit of competency is set on the presumption that the people concerned already possess the knowledge of how to handle chemicals and operate commonly used spraying tools and instruments.</p>