



**Australian Government**

**Department of Education, Employment and Workplace Relations**

# **AURV330149A Prepare and paint plastic components**

**Release: 1**

## AURV330149A Prepare and paint plastic components

### Modification History

Not Applicable

### Unit Descriptor

|                        |                                                                                                          |
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| <b>Unit descriptor</b> | This unit covers the competence required to prepare and apply refinishing materials to plastic surfaces. |
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### Application of the Unit

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <b>Application of the unit</b> | <p>The unit includes identification and confirmation of work requirement, preparation for work, preparation of plastic surfaces, selection, application and drying of finishing material and completion of work finalisation processes, including clean-up and documentation.</p> <p>Work requires individuals to demonstrate judgement and problem-solving skills in managing own work activities and contributing to a productive team environment.</p> <p>Work is carried out in accordance with award provisions.</p> |
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### Licensing/Regulatory Information

Not Applicable

### Pre-Requisites

|                           |  |  |
|---------------------------|--|--|
| <b>Prerequisite units</b> |  |  |
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## Employability Skills Information

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| <b>Employability skills</b> | This unit contains employability skills. |
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## Elements and Performance Criteria Pre-Content

|                                                                   |                                                                                                                                                                                                                                                                                                                  |
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| Elements describe the essential outcomes of a unit of competency. | Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide. |
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## Elements and Performance Criteria

| ELEMENT                                            | PERFORMANCE CRITERIA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Prepare for work                                | 1.1. Work instructions are used to determine the job requirements, including method and material type.<br>1.2. Job specifications are read and interpreted.<br>1.3. OH&S requirements, including personal protection needs, are observed throughout the work.<br>1.4. Materials are selected and inspected for quality.<br>1.5. Hand, power tooling and safety equipment are identified and checked for operation.<br>1.6. Procedures are determined to minimise waste material.<br>1.7. Procedures are identified for maximising energy efficiency while completing the job.                                                                                                                                                                                                                                                                              |
| 2. Prepare plastic surfaces for refinishing        | 2.1. Environment for preparation of plastic surfaces conforms to requirements for temperature, extraction of fumes and cleanliness.<br>2.2. Preparation activities are carried out according to industry regulations/guidelines, OH&S legislation, and enterprise procedures/policies.<br>2.3. Preparation is completed without causing damage to any component or system.<br>2.4. Waste materials are disposed of and/or stored in accordance with statutory and enterprise requirements.                                                                                                                                                                                                                                                                                                                                                                 |
| 3. Apply refinishing materials to plastic surfaces | 3.1. Environment for application of refinishing materials conforms to requirements for temperature, extraction of fumes and cleanliness.<br>3.2. Surfaces are prepared and refinishing materials are applied at manufacturer/component supplier recommended intervals using approved methods.<br>3.3. Refinishing materials are dried using approved methods and equipment.<br>3.4. Finish produced meets application specifications for colour, texture, depth and gloss and is contaminant-free blending into surrounding surfaces.<br>3.5. Refinishing material application is completed without causing damage to any component or system.<br>3.6. Application activities are carried out according to industry regulations/guidelines, OH&S legislation, and enterprise procedures/policies.<br>3.7. Waste materials are disposed of and/or stored in |

| ELEMENT                                      | PERFORMANCE CRITERIA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                              | accordance with statutory and enterprise requirements.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 4. Clean up work area and maintain equipment | <p>4.1. Material that can be reused is collected and stored.</p> <p>4.2. Waste and scrap is removed following workplace procedure.</p> <p>4.3. Equipment and work area are cleaned and inspected for serviceable condition in accordance with workplace procedures.</p> <p>4.4. Unserviceable equipment is tagged and faults identified in accordance with workplace procedures.</p> <p>4.5. Operator maintenance is completed in accordance with manufacturer/component supplier specifications and worksite procedures.</p> <p>4.6. Tooling is maintained in accordance with workplace procedures.</p> |

## Required Skills and Knowledge

### REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit.

#### Required skills

- collect, organise and understand information related to work orders, plans and safety procedures for preparation and painting of plastic components
- communicate ideas and information to enable confirmation of work requirements and specifications, coordination of work with worksite supervisor, other workers and customers, and the reporting of work outcomes and problems
- plan and organise activities, including preparation and layout of worksite and obtaining of equipment and materials to avoid backtracking, workflow interruptions or wastage
- work with others and in a team by recognising dependencies and using cooperative approaches to optimise workflow and productivity
- use mathematical ideas and techniques to calculate time, apply accurate measurements, calculate material requirements and establish quality checks
- establish safe and effective work processes which anticipate and/or resolve problems and downtime, to systematically develop solutions to avoid or minimise reworking and avoid wastage
- use workplace technology related to preparation and painting of plastic components, including the use of specialist tooling and equipment, measuring

**REQUIRED SKILLS AND KNOWLEDGE**

equipment and communication devices and the reporting/recording of results

**Required knowledge**

A working knowledge of:

- OH&S regulations/requirements, equipment, material and personal safety requirements
- environmental protection requirements/storage and disposal requirements
- material safety data sheets
- surface preparation methods
- types of paints
- application methods, including spray and roller methods
- types of spray guns and maintenance requirements
- spray gun/roller techniques
- paint drying methods and procedures
- work organisation and planning processes
- enterprise quality processes

## Evidence Guide

### EVIDENCE GUIDE

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

#### Overview of assessment

#### Critical aspects for assessment and evidence required to demonstrate competency in this unit

It is essential that competence is fully observed and there is ability to transfer competence to changing circumstances and to respond to unusual situations in the critical aspects of:

- observing safety procedures and requirements
- communicating effectively with others involved in or affected by the work
- selecting methods and techniques appropriate to the circumstances
- completing preparatory activity in a systematic manner
- applying environmental procedures for preparing paint
- preparing and painting plastic components.

#### Context of, and specific resources for assessment

Application of competence is to be assessed in the workplace or simulated worksite.

Assessment is to occur using standard and authorised work practices, safety requirements and environmental constraints.

Assessment is to comply with regulatory requirements, The following resources should be made available:

- workplace location or simulated workplace
- materials relevant to preparation and painting of plastic components
- equipment, hand and power tooling appropriate to preparation and painting of plastic components
- activities covering mandatory task requirements
- specifications and work instructions including Australian Standards.

#### Method of assessment

- Assessment must satisfy the endorsed assessment guidelines of the automotive industry's RS&R Training Package.
- Assessment methods must confirm consistency and accuracy of performance together with application of underpinning knowledge.
- Assessment must be by direct observation of tasks, with questioning on underpinning knowledge and it must also reinforce the integration of key competencies.

| <b>EVIDENCE GUIDE</b>                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                            | <ul style="list-style-type: none"> <li>• Assessment may be applied under project related conditions and require evidence of process.</li> <li>• Assessment must confirm a reasonable inference that competence is able not only to be satisfied under the particular circumstance, but is able to be transferred to other circumstances.</li> <li>• It is preferable that assessment reflects a process rather than an event and occurs over a period of time to cover varying quality circumstances. Evidence of performance may be provided by customers, team leaders/members or other persons subject to agreed authentication arrangements.</li> <li>• Competence in this unit may be assessed in conjunction with other functional units which together form part of the holistic work role.</li> </ul> |
| <b>Guidance information for assessment</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

## Range Statement

| <b>RANGE STATEMENT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                     |
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| <p>The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.</p> |                                                                                                                                                                                                                                     |
| <b>Preparation</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Preparation includes application of anti-static cleaning agents.                                                                                                                                                                    |
| <b>Application methods</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Application methods include spray gun techniques, various spraying techniques, drying procedures, paint mixing and polishing and detailing of brushed surfaces.                                                                     |
| <b>OH&amp;S</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | OH&S requirements are to be in accordance with legislation/regulations/codes of practice and enterprise safety policies and procedures. This may include protective clothing and equipment, use of tooling and equipment, workplace |

| <b>RANGE STATEMENT</b>                  |                                                                                                                                                                                                                                                                                                                          |
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|                                         | environment and safety, handling of materials, use of fire fighting equipment, enterprise first aid, hazard control and hazardous materials and substances.                                                                                                                                                              |
| <b>Personal protective equipment</b>    | Personal protective equipment is to include that prescribed under legislation/regulation/codes of practice and workplace policies and practices.                                                                                                                                                                         |
| <b>Safe operating procedures</b>        | Safe operating procedures are to include, but are not limited to operational risk assessment and treatments associated with vehicular movement, toxic substances, electrical safety, machinery movement and operation, manual and mechanical lifting and shifting, working in proximity to others and worksite visitors. |
| <b>Emergency procedures</b>             | Emergency procedures related to this unit are to include, but are not limited to emergency shutdown and stopping of equipment, extinguishing fires, enterprise first aid requirements and worksite evacuation.                                                                                                           |
| <b>Environmental requirements</b>       | Environmental requirements are to include but are not limited to waste management, noise, dust and clean-up management.                                                                                                                                                                                                  |
| <b>Quality requirements</b>             | Quality requirements are to include, but are not limited to regulations, including Australian Standards, internal company quality policy and standards and enterprise operations and procedures.                                                                                                                         |
| <b>Statutory/regulatory authorities</b> | Statutory/regulatory authorities may include Federal, State/Territory and local authorities administering acts, regulations and codes of practice.                                                                                                                                                                       |
| <b>Tooling and equipment</b>            | Tooling and equipment may include various spray guns, air pressure regulators, air compressors, spray booths, baking ovens, heating and lighting systems, and safety equipment.                                                                                                                                          |
| <b>Materials</b>                        | Materials may include acrylic lacquers, air dry synthetic enamels, two-pack urethane acrylic enamels, metallic two-pack enamels, clear acrylic lacquers, metallic acrylic lacquers, pearl finishes,                                                                                                                      |

| <b>RANGE STATEMENT</b>       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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|                              | water-based finishes, paint thinners, paint reducers and cleaning materials, plastic primers, anti-static cleaning agents.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Communications</b>        | Communications are to include, but are not limited to verbal and visual instructions and fault reporting and may include worksite specific instructions, written instructions, plans or instructions related to job/task, telephones and pagers.                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Information/documents</b> | <p>Sources of information/documents may include:</p> <ul style="list-style-type: none"> <li>• verbal or written and graphical instructions, signage, work schedules/plans/specifications, work bulletins, memos, material safety data sheets, diagrams or sketches</li> <li>• safe work procedures related to preparation and painting of plastic components</li> <li>• regulatory/legislative requirements pertaining to automotive painting and finishing</li> <li>• engineer's design specifications and instructions</li> <li>• organisation work specifications and requirements</li> <li>• instructions issued by authorised enterprise or external persons</li> <li>• Australian Standards.</li> </ul> |

## Unit Sector(s)

|                    |              |
|--------------------|--------------|
| <b>Unit sector</b> | Vehicle body |
|--------------------|--------------|

## Co-requisite units

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|---------------------------|--|--|
| <b>Co-requisite units</b> |  |  |
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|---------------------------|--|--|
| <b>Co-requisite units</b> |  |  |
|                           |  |  |

## Competency field

|                         |  |
|-------------------------|--|
| <b>Competency field</b> |  |
|-------------------------|--|