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Australian Government

Department of Education, Employment and Workplace Relations

AUMGTY3001 Paint chassis or panels

Release: 1

AUMGTY3001 Paint chassis or panels

Modification History

Not applicable.

Unit Descriptor

Unit descriptor	This unit describes the application of the skills and knowledge required to prepare and apply paint to produce quality finished painted body shell/structure/panels. No licensing, legislative, regulatory or certification requirements apply to this unit at the time of publication.
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Application of the Unit

Application of the unit	The unit applies to the automotive and related component manufacturing environment and involves application of skills and knowledge at a production worker level. These skills and knowledge are to be used within the scope of the person's job and authority.
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Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Not applicable.

Employability Skills Information

Employability skills	This unit contains Employability Skills.
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Elements and Performance Criteria Pre-Content

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

ELEMENT	PERFORMANCE CRITERIA
1. Prepare for painting	1.1. Paints and materials are handled and used in accordance with organisation and OHS requirements 1.2. Workflow and production schedule are recorded and maintained 1.3. Panels are masked off to ensure surrounding areas are protected from overspray 1.4. Spraying equipment is selected and inspected to meet the requirements of the coating and colour being applied 1.5. Spraying equipment found to be faulty is tagged and stored in the designated storage area and reported to the appropriate personnel
2. Operate spraying equipment	2.1. Paint is prepared using codes and numbers stated in the standard operating procedures 2.2. Spraying equipment is operated and adjusted to give the required spray pattern, fan width and consistent flow of paint
3. Apply primer to surfaces and colour to panel/chassis	3.1. Paint coatings are applied to ensure interior openings and external surfaces are coated 3.2. Paint coatings are applied to the required thickness, lustre and surface finish 3.3. Paint coatings are monitored for surface blemishes 3.4. Viscosity of paint coatings is monitored and adjusted to ensure they compliance with paint suppliers recommended ratios 3.5. Masking materials are removed and disposed of appropriately
4. Record and report faulty paint film surfaces	4.1. Paint surfaces are visually inspected for film faults and marked for reworking 4.2. Panels with paint film faults are redirected and stored in the designated storage area for reworking and appropriate personnel notified
5. Maintain and clean equipment	5.1. Spraying equipment is maintained in accordance with the suppliers recommended maintenance schedules and procedures 5.2. Equipment maintenance schedules are checked and delays in maintenance reported to the appropriate personnel for attention

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This describes the essential skills and knowledge and their level, required for this unit.

Required skills

- speak clearly and directly in order to report faulty equipment appropriately
- apply teamwork to a range of situations
- solve problems particularly in teams in order to meet performance indicators
- show initiative in adapting to changing work conditions or contexts particularly when working across a variety of work areas
- access, interpret and apply information on relevant organisation policies, procedures and instructions, particularly to paint requirements
- manage time when planning, preparing and organising work priorities
- take responsibility for organising own work priorities.

Required knowledge

- relevant Occupational Health and Safety and Environmental regulations and enterprise policies and procedures needed to carry out work in a manner which ensures the safety of people, equipment and the environment. The specific regulations will vary according to the area of operation
- enterprise technical work documentation covering procedures, specifications, schedules and work plans or equivalent
- enterprise quality system documentation covering instructions, procedures, performance indicators and review processes or equivalent
- enterprise cost minimisation/waste avoidance policies, procedures and practices
- environmental protection requirements relating to the disposal of waste material
- established communication channels and protocols
- problem identification and resolution techniques
- surface preparation procedures
- reading and interpreting materials lists and operating procedures
- types of paints, sealants, solvents, related chemicals and their properties
- procedures for mixing, preparing and applying paints and other chemicals
- company/manufacturer policies and procedures
- the use, application and maintenance of the range of tools, materials and equipment relevant to these processes
- producing work flow records - written / electronic
- company OH&S policy and procedures.

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, the Range Statement and the Assessment Guidelines for this Training Package.

Overview of assessment

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

Evidence of the following is essential:

- compliance with relevant legislative, regulations, standards, codes of practice and establish safe practices and enterprise policies and procedures for managing personal work priorities
- maintaining a working knowledge of current work systems and practices
- working and communicating effectively and positively with others involved in the work
- applying, within authority, the requirements of the job or work role in relation to:
 - achieving production goals
 - achieving work quality goals
 - responding positively to changing work requirements
 - contributing effectively to cost reduction initiatives
 - effectively applying problem solving techniques
- modify activities to cater for variations in workplace context and environment
- prepare surface for painting
- prepare and use solvents to kill rust, remove greases, and remove protective waxes
- mix, prepare and apply paints, e.g. primers and/or lacquers and/or enamels and/or two pack paints
- interpret and communicate operational information
- select appropriate sealants, adhesives, paints, tools and equipment
- employ mechanical and manual sanding techniques
- employ safe working practices
- select and use relevant tools and equipment
- maintain company records - paper based / electronic.

Context of and specific resources for assessment

- assessment of the competency should take place in a safe working environment in a passenger motor vehicle manufacturing plant or simulated environment using tools/equipment/machinery required for the production process without undue disruption to the production process

EVIDENCE GUIDE	
	<ul style="list-style-type: none"> assessment is to occur under standard and authorised work practices, safety requirements and environmental constraints.
Method of assessment	<p>A range of assessment methods should be used to assess practical skills and knowledge. The following examples are appropriate for this unit:</p> <ul style="list-style-type: none"> assessment methods must confirm consistency and accuracy of performance (over time and in a range of workplace relevant contexts) together with application of underpinning knowledge assessment methods must be by direct observation of tasks and include questioning on underpinning knowledge to ensure its correct interpretation and application assessment may be applied under project related conditions (real or simulated) and require evidence of process assessment must confirm a reasonable inference that competency is able not only to be satisfied under the particular circumstance, but is able to be transferred to other circumstances.

Range Statement

RANGE STATEMENT

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 in the Performance Criteria is detailed below. Add any 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.

<i>Paints and materials</i> may include:	<ul style="list-style-type: none"> • phosphate dips, primer coatings, colour coatings, anti-chip materials, etch primers, lacquers, enamels, two pack and anti chip paints, sealers, solvents, masking tapes and papers, and abrasive papers, spirit wipes, de-mineralised water
<i>Organisation requirements</i> may include:	<ul style="list-style-type: none"> • access and equity principles and practices • environmental management (waste disposal, recycling and re-use guidelines) • emergency and evacuation procedures • equipment use procedures • ethical standards • legal obligations • maintenance and storage procedures • OHS requirements • organisational and site guidelines • policies and procedures relating to own role and responsibility • procedural manuals • quality assurance guidelines • quality and continuous improvement processes and standards • recording and reporting guidelines.
<i>OHS requirements</i> may include:	Legislation and regulations, organisational safety policies and procedures and may include: the use of personal protective equipment and clothing, rescue services, fire fighting organisation and equipment, first aid equipment, hazard and risk control and elimination, systems covering the use of hazardous materials and substances and manual handling procedures including lifting and carrying.
<i>Equipment</i> may include:	<ul style="list-style-type: none"> • high pressure guns, squeeze bottles, airless spraying equipment, air recirculating systems, paint recirculating systems, automatic / robotic spraying systems, extension nozzles, paint brushes and knives, air disc and hand sanding equipment, air oscillating sanding machines and tape dispensers
<i>Appropriate personnel</i> may include:	<ul style="list-style-type: none"> • clients and managers • supervisors • suppliers

RANGE STATEMENT	
	<ul style="list-style-type: none">• team leaders• team members.
<i>Surface blemishes</i> may include:	<ul style="list-style-type: none">• excess orange peel and runs

Unit Sector(s)

Unit sector	Technical - Chassis and Frame
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Competency field

Competency field	Manufacturing - Bus, Truck and Trailer
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Co-requisite units

Not applicable.