



Australian Government

PMBPROD317 Print and decorate rigid products

Release: 1

PMBPROD317 Print and decorate rigid products

Modification History

Release 1. Supersedes and is equivalent to PMBPROD317C Print and decorate rigid products

Application

This unit of competency covers the skills and knowledge required to operate and adjust equipment to print or decorate rigid products.

This unit of competency applies to experienced operators who are required to plan the process stages, start up and shut down printing equipment, monitor equipment operation, make adjustments to remedy faults and non-conformity and solve problems within area of responsibility.

This unit of competency applies to an experienced operator demonstrating theoretical and technical knowledge and well developed skills in situations that require some discretion and judgement. The experienced operator may work alone or as a member of a team or group and will work in liaison with other shift team members, team leader and supervisor, as appropriate.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

PMBPROD217 Operate printing equipment

Competency Field

Production

Unit Sector

Not applicable

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

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| 1 | Plan process stages for printing and decorating | 1.1 | Plan the stages in the printing and decorating process and ensure these comply with the quality requirements for production |
| | | 1.2 | Identify and allow for changes in materials at each stage of the printing and decorating process |
| | | 1.3 | Plan the availability of the equipment and components for each production stage |
| | | 1.4 | Anticipate the impact of the process on product characteristics and product quality and usability |
| | | 1.5 | Plan work requirements based on procedures |
| 2 | Identify work requirements for printing and decorating operations | 2.1 | Prepare materials, including base raw materials and additives |
| | | 2.2 | Identify and address hazards connected with both production materials and process |
| | | 2.3 | Check materials inputs and outputs, dyes and print chemical colours, ancillary supplies and equipment are within specifications |
| | | 2.4 | Check product quality requirements for the relevant process stage |
| | | 2.5 | Identify and check equipment emergency stops, gauges, guards and controls |
| | | 2.6 | Plan the task sequences, including times and locations for product quality checks, equipment operation and required production outputs |
| | | 2.7 | Provide for ongoing materials input, waste management and work area housekeeping requirements |
| | | 2.8 | Arrange any required supplementary equipment for product quality testing or routine equipment maintenance and/or adjustments |

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| 3 | Set up and check printing and decorating equipment | 3.1 | Comply with equipment information, required quality specifications and set-up procedures |
| | | 3.2 | Set up equipment in accordance with required specifications and procedures |
| | | 3.3 | Check printing and decorating equipment settings and adjustments and conformity to procedures |
| | | 3.4 | Check materials are correct |
| | | 3.5 | Check that surface preparation operations provide for an even and consistent surface for printing |
| | | 3.6 | Discard non-conforming materials or make adjustments to processing operations in accordance with workplace procedures |
| | | | |
| 4 | Monitor printing and decorating operation | 4.1 | Start up, operate and shut down equipment as required by procedures |
| | | 4.2 | Monitor printing and decorating operations |
| | | 4.3 | Make adjustments to remedy faults and non-conformity to production standards where applicable |
| | | 4.4 | Collect material which is able to be reprocessed and reused, and dispose of waste and scrap in accordance with procedures |
| | | 4.5 | Clean up equipment, lubricate, and adjust in accordance with workplace procedures |

Foundation Skills

This section describes those required skills (language, literacy and numeracy) that are essential to performance.

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

This field allows for different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

Regulatory framework The latest version of all legislation, regulations, industry codes of practice and Australian/international standards, or the version specified by the local regulatory authority, must be used.

Applicable legislation, regulations, standards and codes of practice include:

- health, safety and environmental (HSE) legislation, regulations and codes of practice relevant to the workplace, manual handling and hazardous materials
- Australian/international standards relevant to the materials being used and products being made
- any relevant licence and certification requirements.

All operations to which this unit applies are subject to stringent HSE requirements, which may be imposed through state/territory or federal legislation, and these must not be compromised at any time. Where there is an apparent conflict between performance criteria and such requirements the legislative requirements take precedence.

Procedures • All operations must be performed in accordance with relevant procedures.

Procedures are written, verbal, visual, computer-based or in some other form, and include one or any combination of:

- emergency procedures
- work instructions
- standard operating procedures (SOPs)
- safe work method statements (SWMS)
- formulas/recipes
- batch sheets
- temporary instructions
- any similar instructions provided for the smooth running of the plant.

Tools and equipment Tools and equipment include:

- printing equipment and its major components.

Additional tools and equipment will be selected as required from:

- hand tools used in the process
- hoists/lifting equipment not requiring any special permits or licences
- manual handling aids, such as hand carts and trolleys
- relevant personal protective equipment (PPE).

Hazards

Hazards must be identified and controlled. Identifying hazards requires consideration of:

- fumes/vapours
- weight, shape, volume of materials to be handled
- hazardous products and materials
- rotational equipment or vibration
- sharp edges, protrusions or obstructions
- slippery surfaces, spills or leaks
- smoke, dust or other atmospheric hazards
- high temperatures
- electricity
- gas
- gases and liquids under pressure
- structural hazards
- equipment failures
- machinery, equipment and product mass
- other hazards that might arise.

Problems

Non-routine problems must be resolved by applying operational knowledge to develop new solutions, either individually or in collaboration with relevant experts, to:

- determine problems needing action
- determine possible fault causes
- develop solutions to problems which do not have a known solution
- follow through items initiated until final resolution has occurred
- report problems outside area of responsibility to designated person.

Non-routine problems are unexpected problems or variations of previous problems and include one or more of:

- unstable process variables
- sub-optimal operation
- variations in feed rates
- variations in quality

- emergency situations
- intermittent faults.

Operational knowledge includes one or more of:

- procedures
- training
- technical information, such as journals and engineering specifications
- remembered experience
- relevant knowledge obtained from appropriate people.

Unit Mapping Information

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Links

MSA Training Package Implementation Guides - <http://mskills.org.au/training-packages/info/>