

Title	Prepare, handle and store substrates required for screen printing		
Level	3	Credits	6

Purpose	People credited with this unit standard are able to: identify and describe substrates used in the workplace for screen printing; and prepare, handle and store substrates used for screen printing.
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Classification	Printing > Printing - Screen
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Available grade	Achieved
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Prerequisites	Unit 340, <i>Demonstrate knowledge of safe working practices in the print industry</i> , or demonstrate equivalent knowledge and skills.
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Guidance Information

1 Legislation, regulations and/or industry standards relevant to this unit standard include but are not limited to the:

- Hazardous Substances and New Organisms Act 1996;
- Health and Safety at Work Act 2015;
- Resource Management Act 1991.

Any new, amended or replacement Acts, regulations, standards, codes of practice, guidelines, or authority requirements or conditions affecting this unit standard will take precedence for assessment purposes, pending review of this unit standard.

2 Definitions

Specifications refer to a detail that defines an object being made; commonly communicated by annotated and dimensioned drawings; by written description, or by other communication media. External references may also be used to specify objects such as tables or industry standards.

Substrate refers to papers, boards, plastic or other material that images and/or text are printed onto.

Workplace procedures refer to organisation policies and procedures that are documented in memo, electronic, or manual format and available in the workplace. They may include but are not limited to – standard operating procedures, site specific procedures, site safety procedures, equipment operating procedures, quality assurance procedures, product quality specifications, manufacturer's requirements, references, approved codes of practice, housekeeping standards, environmental considerations, on-site briefings, supervisor's instructions, and procedures to comply with legislative and local body requirements relevant to the print sector.

- 3 It is recommended that people hold credits for Unit 21328, *Demonstrate industry knowledge for screen printing*, before being assessed against this unit standard.
- 4 Assessment information
Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with applicable service information, and workplace procedures and legislative requirements.
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Outcomes and performance criteria

Outcome 1

Identify and describe substrates used in the workplace for screen printing.

Performance criteria

- 1.1 Identify substrates commonly used for screen printing and describe those used in the workplace.
- Range may include but is not limited to – paper, board, plastic, metal, rubber, glass, ceramics, textiles.
- 1.2 Identify the characteristics of substrates used for screen printing.
- Range may include but is not limited to – grammage, calliper, bulk value, smoothness, opacity, transparency, coatings, absorbency, strength, colour, flexibility, size, dimensional stability, job suitability, grain direction, texture, surface finish, dye migration, post print migration.
- 1.3 Describe the effects of workplace conditions on substrates.
- Range humidity, static, airflow, temperature.

Outcome 2

Prepare, handle and store substrates used for screen printing.

Performance criteria

- 2.1 Identify the substrate characteristics which are likely to cause problems.
- Range may include but is not limited to – grammage, calliper, bulk value, smoothness, opacity, transparency, coatings, absorbency, strength, colour, flexibility, size, dimensional stability, job suitability, grain direction, texture, surface finish, dye migration, post print migration.
- 2.2 Confirm substrate meets the job specifications.

2.3 Calculate substrate quantity, including overs, and confirm quantity issued against the job specifications.

2.4 Handle and store substrates.

Range may include but is not limited to:
 handling – clean working environment, clean hands, carrying methods, stacking, knocking up, grain direction, working side, avoidance of damage to substrate, avoidance of personal injury, static electricity, wavy edges;
 storage – light, temperature, airflow control, relative humidity, age (stock rotation), ease of access.

Replacement information	This unit standard replaced unit standard 5132, unit standard 5133, and unit standard 5134.
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Planned review date	31 December 2027
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	30 August 1999	31 December 2025
Review	2	21 February 2005	31 December 2025
Rollover and Revision	3	12 December 2008	31 December 2025
Review	4	30 March 2023	31 December 2025
Revision	5	28 September 2023	N/A

Consent and Moderation Requirements (CMR) reference	0013
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact the Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council qualifications@hangaarorau.nz if you wish to suggest changes to the content of this unit standard.