Title	Make ready and print multi colour for fabric panel screen printing
Level	**3**	**Credits**	**25**

Purpose	People credited with this unit standard are able to: set and position the screens for multi colour fabric panel screen printing; undertake make ready tasks for multi colour fabric panel work; and print multi colour fabric panel work in close register.

Classification	Printing > Printing - Screen

Available grade	Achieved

Prerequisites	Unit 340, *Demonstrate knowledge of safe working practices in the print industry,* or demonstrate equivalent knowledge and skills*.*

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;
- Privacy Act 2020;
- 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
Job documentation refers to the documentation that is used in the workplace that contains the instructions and requirements for a particular production job. This may include but is not limited to workplace orders, production orders, workplace specifications, samples, lay cards.
Job requirements refer to specific requirements for the print job at hand. These requirements may or may not be covered in the job documentation and may include special instructions, quality requirements expected by the customer, and/or production standards of the print workplace and/or organisation.
Specifications refers 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.

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 industry sector.

3   It is recommended that people hold credits for Unit 5140*, Make ready and print single colour for fabric panel screen printing;* and 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, workplace procedures and legislative requirements.

Outcomes and performance criteria

Outcome 1

Set and position the screens for multi colour fabric panel screen printing.

Performance criteria

1.1   Touch up stencils for multi colour work and remove all imperfections.

1.2   Lock screens for multi colour work into the press to give accurate register with the other colours.

        Range   colour sequence, lays set square, machine settings set to neutral; maximum tolerance – $\pm$ 0.2mm; utilise registration systems where applicable.

1.3   Mask screens for multi colour work to meet job requirements.

Outcome 2

Undertake make ready tasks for multi colour fabric panel work.

Performance criteria

2.1   Determine print sequence of inks to meet job requirements.

        Range   absorbency and surface of substrate, areas of critical register, final colours and trapping requirements.

2.2   Squeegee is placed in the press.

2.3   Ink up screens with the correct ink colour.

2.4   Take first multi colour prints and make any required adjustments to meet the job specifications.

2.5   Pass prints for production run, and obtain approval to run.

Outcome 3

Print multi colour fabric panel work in close register.

Performance criteria

3.1   Print first colour to meet the job requirements.

3.2   Print second and/or subsequent colours to meet the job requirements.

3.3   Maintain production standards throughout the print runs.

          Range   colour density, fit, register, overprinting colours.

3.4   Use overprint finishes to meet the job requirements.

          Range   overgloss, flocking, foiling.

3.5   Identify any problems and faults found during the print run, explain their causes and describe methods of rectifying them.

          Range   may include but is not limited to – smudging, colour variation, position, loss of detail, drying of ink in the screen, dust, change of viscosity, legibility, clarity, static, humidity, stencil breakdown, ink drying (cure), pin holes, substrate movement, bleeding (dye migration).

3.6   Check print quantity required in accordance with job documentation.

3.7   Carry out post-press tasks as required by the job documentation.

          Range   tasks may include but are not limited to – retain and file approved print standards, approved print proofs, film work.

Replacement information	This unit standard, unit standard 5138, unit standard 5139, unit standard 5140, unit standard 5142, and unit standard 5143 replaced unit standard 345, unit standard 347, and unit standard 348.

Planned review date	31 December 2027

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	23 August 1995	31 December 2025
Review	2	23 August 1995	31 December 2025
Revision	3	20 July 1998	31 December 2025
Review	4	30 August 1999	31 December 2025
Review	5	21 February 2005	31 December 2027
Review	6	30 March 2023	N/A
Revision	7	27 February 2025	N/A

Consent and Moderation Requirements (CMR) reference	0013

This CMR can be accessed at http://www.nzqa.govt.nz/framework/search/index.do.

Comments on this unit standard

Please contact 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.