

Field Manufacturing

Review of *Printing* unit standards

Subfield	Domain	ID
Printing	Pad Printing	24988 - 24994
	Print Industry Management	16771, 16772, 18614, 25011, 25049, 25340, 32135, 32136
	Printing Production	340, 341, 2281, 3673, 10915, 10917, 10918, 10922, 17930, 17931, 17934, 18247, 20057, 20058, 21942, 26317, 26323, 26729
	Printing - Screen	5129 - 5131, 5135 - 5144, 16756, 16773, 16795, 16796, 21328

Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council has completed the review of the unit standards listed above.

Date new versions published

March 2023

Planned review date

December 2027

Summary

This combined review was undertaken in conjunction with the review of the Print qualifications below.

- New Zealand Certificate in Print (Level 4) with strands in Digital Printing, Direct Marketing Production, Offset Printing, Reel-fed Printing, and Screen Printing [Ref: 3199]
- New Zealand Diploma in Print Industry Management (Level 5) [Ref: 3200]

Regular consultation meetings were held online with a Print advisory group throughout June to November 2022. The advisory group was made up of representatives from PrintNZ (the industry association), training providers and employers. A specialised technical advisory group reviewed the Pad Printing unit standards and oversaw the development of a proposed New Zealand Certificate in Pad Printing (Level 3). Consultation and feedback from industry stakeholders resulted in changes to unit standards as listed below. There are no changes to current Print Industry Management unit standards since industry stakeholders considered them to be fit for purpose.

Main changes

- Guidance information and document formatting have been updated across the suite of standards.
- Wording has been simplified across the suite of standards in response to industry stakeholder feedback for use of clear direct language.
- Performance criteria and range statements have been updated where relevant to reflect current print industry practice across the suite of unit standards.
- Eight unit standards have no usage over the past five years, and have been set to expire (Category D) where industry stakeholders indicated they would not be used in the future.
- Credit values for four Pad Printing unit standards have been decreased. Industry stakeholders indicated less time was required for learning and assessment activities since aspects of the pad printing process are now predetermined.
- Outcome 3 has been removed in unit standard 24988 in response to industry stakeholder feedback that pre-production design content is not relevant to current pad printing processes.

- Outcome 1 has been removed in unit standard 24993 because industry stakeholder feedback indicated it was not necessary to duplicate the content on halftones, which is already covered in outcome 2 in unit standard 24988.
- The level of unit standard 16756 has increased from 2 to 3. Industry stakeholders considered this to be the appropriate level for the unit standard since candidates will be able to perform tasks under limited supervision upon completion of the unit standard.
- Unit standards 5129 and 5130 have been expired. Their content has been consolidated into a new unit standard 33235. This enables learners to achieve the unit standard using older systems (to allow for variation across workplaces), while reducing the number of unit standards that are very similar.
- Minor changes were made to purpose statement, outcomes and associated performance criterion, where relevant, to unit standards 5131, 5138 and 5140, and 16796 to accommodate optional use of scraper in screen printing.
- Unit standard 16771 has been reinstated in response to a request from industry stakeholders. Since a new Graduate Outcome Profile (GPO) in production planning has been added to the New Zealand Certificate in Print (level 4), there is a renewed need for a unit standard in production planning. The title has also been updated to more accurately reflect the wording used in the unit standard text.
- The credit value in unit standard 26729 was increased from 20 to 30 due to industry stakeholder feedback that troubleshooting forms a large part of the workload.
- Titles were updated in unit standards 16772 and 32135 to more accurately reflect the wording used in the unit standard text.
- The titles were changed in unit standards 5139 - 5141 and 20058 for clarity and greater consistency with the suite of print unit standards.
- Unit standard 21328 – minor updates to wording of outcomes 1,4,6,7 and 8 for consistency with the performance criteria descriptions. The purpose statement has been updated accordingly.

Category C and D unit standards will expire at the end of December 2025

The last date for assessment of superseded versions of Category B unit standards is 31 December 2025

Impact on Consent and Moderation Requirements (CMR)

Reviewed unit standards that are not currently listed in CMR 0013 have been moved from CMR 0005 to CMR 0013.

Detailed list of unit standards – classification, title, level, and credits

Key to review category	
A	Dates changed, but no other changes are made - the new version of the standard carries the same ID and a new version number
B	Changes made, but the overall outcome remains the same - the new version of the standard carries the same ID and a new version number
C	Major changes that necessitate the registration of a replacement standard with a new ID
D	Standard will expire and not be replaced

Manufacturing > Printing > Pad Printing

ID	Title	Level	Credit	Review Category
24988	Demonstrate introductory knowledge of pad printing	3	7 4	B
24989	Prepare, handle, and store substrates used for pad printing	3	8	C
33238	Handle substrates used for pad printing	3	4	

ID	Title	Level	Credit	Review Category
24990	Wash up a pad printing machine	3	4 3	B
24991	Make ready a pad printing machine for single colour pad printing	3	15	C
33240	Make ready a pad printing machine for single colour printing	3	10	
24992	Print single colour work on a pad printing machine	3	15 10	B
24993	Demonstrate knowledge of colour and ink requirements for pad printing	3	8 4	B
24994	Make ready and print multi colour for pad printing	3	10	B

Manufacturing > Printing > Print Industry Management

ID	Title	Level	Credit	Review Category
16771	Explain production planning and control procedures used in a print industry company Explain production planning and control processes used in a print industry company	4	10	Reinstate
16772	Manage production planning and quality control in a print industry company Manage production planning and control processes, and quality control in a print industry company	5	20	B
18614	Research the structure of the New Zealand print industry and its production processes and technology	5	20	B
25011	Demonstrate and apply knowledge of finance and costing for print production and analyse growth opportunities	5	20	B
25049	Demonstrate knowledge of quality management in the print industry	5	20	B
25340	Manage the procurement of goods or services in the print industry	5	20	B
32135	Carry out a continuous improvement project within a print industry company Carry out a continuous improvement project for a print industry company	5	30	B
32136	Investigate and solve complex problems in the print industry	5	15	B

Manufacturing > Printing > Printing Production

ID	Title	Level	Credit	Review Category
340	Demonstrate knowledge of safe working practices in the print industry	2	5	B
341	Carry out routine and preventive maintenance common to the print industry	3	10	B
2281	Demonstrate knowledge of the print industry	2	7	B
3673	Undertake packing and despatch for print production	3	5	B
10915	Operate a coating machine for print production	3	30	D
10917	Operate a sheet-to-sheet laminator for print production	3	30	D

ID	Title	Level	Credit	Review Category
10918	Operate a pile (stack) turner for print production	2	5	D
10922	Undertake wrapping for print production	2	5	D
17930	Operate a guillotine for print production	3	20	B
17931	Set up and operate single function machinery for print production	3	15	B
17934	Set up and operate multifunction machinery for print production	4	20	B
18247	Assist machine operator to cut and crease substrates for print production	2	8	D
20057	Demonstrate knowledge of business and quality principles in the print industry	3	10	B
20058	Demonstrate understanding of trade calculations for the print industry Demonstrate and apply knowledge of trade calculations for the print industry	2	5	B
21942	Set up and operate an inserter for print production	3	15	B
26317	Generate complex imposition schemes and impose pages for printing	4	5	B
26323	Generate basic imposition schemes and impose pages for printing	3	5	B
26729	Troubleshoot and rectify faults when undertaking printing production and solve workplace problems	4	20 30	B

Manufacturing > Printing > Printing - Screen

ID	Title	Level	Credit	Review Category
5129	Reclaim screens using a pressure gun for screen printing	2	4	C
5130	Reclaim screens using an automatic machine, and maintain cleaning equipment for screen printing	2	6	C
33235	Reclaim screens using a pressure gun or automatic machine, and maintain cleaning equipment for screen printing	2	6	
5131	Wash up for screen printing	2	4	B
5135	Produce screens, and make stencils using the capillary system, for screen printing	3	12	B
5136	Produce screens, and make stencils using the direct emulsion system, for screen printing	3	12	B
5137	Produce screens, and make stencils using the indirect system, for screen printing	3	12	B
5138	Make ready and print single colour for flat sheet screen printing	3	40	B
5139	Make ready and print multi colour (not process) for flat sheet screen printing Make ready and print multi colour for flat sheet screen printing	3	25	B
5140	Make ready and print single colour for fabric (panel) screen printing Make ready and print single colour for fabric panel screen printing	3	40	B

ID	Title	Level	Credit	Review Category
5141	Make ready and print multi colour (not process) for fabric (panel) screen printing Make ready and print multi colour for fabric panel screen printing	3	25	B
5142	Make ready and print single colour for formed shapes screen printing	3	40	D
5143	Make ready and print multi colour (not process) for formed shapes screen printing	3	25	D
5144	Undertake pre-make ready for screen printing	4	20	B
16756	Assist machine operator for screen printing	2 3	15	B
16773	Make ready and print four colour process work for screen printing	4	20	D
16795	Prepare, handle and store substrates required for screen printing	3	8	B
16796	Carry out advanced make ready and print for screen printing	4	30	B
21328	Demonstrate industry knowledge for screen printing	3	12	B