Field   Manufacturing

Review of *Printing* unit standards

Subfield	Domain	ID
Printing	Digital Processes for Print	17928, 20097, 20099, 23554, 23828, 23829, 25342, 25398, 26118, 26692, 26693, 27668, 27669, 27772, 27881, 27883, 27884, 28074, 28075
	Dry Offset	12372-12380, 19462, 23408
	Printing – Reel-Fed	2256,16512, 16513, 16522, 16526, 26310-26316
	Printing - Sheet-Fed	355, 365, 10920, 16509, 26318-26322

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 following Print qualifications:
- 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 fifteen members, representing PrintNZ (the industry association), training providers and employers. Consultation and feedback from industry stakeholders resulted in changes to unit standards as listed below. In many unit standards, the technical print processes remain largely unchanged or there have only been small shifts resulting from technological changes.

Main changes
- Guidance information and document formatting has been updated across the suite of unit standards to meet current NZQA requirements.
- Wording has been simplified across the suite of unit standards in response to industry stakeholder request for use of clear direct language.
- Performance criteria and range statements have been updated where relevant to reflect current print industry practises.
- Any unit standard with no usage over the past five years has been expired where industry stakeholders indicated it would not be used in the future.
- Unit standard 23408 has been expired and a new unit standard 33186 was developed with three new outcomes. This aligns with the industry knowledge unit standards across the Printing domains.
- Unit standard 27669 has been expired and a new unit standard 33188 at level 4 was developed. The content on logotype design is no longer used, and typography is considered to be the most relevant content to printers by industry stakeholders.
- Unit standard 12376 has been expired and a new unit standard 33183 was developed. Content on colour theory was considered to fit better in other offset printing unit standards. The new standard aligns with the content across equivalent unit standards across the Printing suite.

- Unit standard 19462 has been expired and replaced with unit standard 33185. The level has increased from 2 to 3 due to industry feedback that candidates will be able to perform some tasks under limited supervision upon completion of the unit standard. Outcomes four and five were removed as industry feedback indicated the content was no longer relevant and a new outcome four was added to align with the equivalent unit standards across the Printing suite.
- Unit standard 10920, the level has increased from 2 to 3 due to industry feedback that candidates will be able to perform some tasks under limited supervision upon completion of the unit standard. Wording has been updated in purpose statement and outcomes where relevant and new performance criteria have been added to outcomes one and five to reflect current industry practices, and to align with equivalent 'assist print operator' unit standards. Performance criterion 5.8 has been removed since it did not directly relate to the outcome.
- Unit standard 26314, the level has increased from 2 to 3 due to industry feedback that candidates will be able to perform some tasks under limited supervision upon completion of the unit standard. The credit value has increased from 12 to 15 to align with equivalent 'assist print operator' unit standards. Wording has been updated in purpose statement and outcomes where relevant and new performance criteria have been added to outcomes one and five for the same reasons outlined above. Performance criterion 5.8 has been removed since it did not directly relate to the outcome.
- Unit standard 26321, a new outcome (2) has been added and new performance criteria have been added to outcomes four and ten. This aligns general print industry knowledge that is applicable across the set of print industry knowledge unit standards (reel-fed, sheet-fed and dry offset printing).
- Unit standard 26315, new performance criteria have been added to outcomes five and eleven to align generic outcomes used across the set of print industry knowledge unit standards.
- Unit standard 12373 credit value has decreased from 40 to 30 credits to align with equivalent unit standard in sheet-fed printing. Outcome 3 and purpose statement have been updated for clarity.
- Unit standard 12377 credit value has increased from 10 to 15 credits due to addition of content from unit standard 12380 (four colour process) which has been expired, and to align with equivalent sheet-fed unit standard.
- Unit standard 26319, 26322, 26316 and 25342 purpose statement and outcomes have been updated where appropriate because *'to meet job requirements'* has been moved to the guidance information since it applies to all outcomes within the unit standard.
- Credit value for unit standards 16509 and 16526 has increased from 5 to 6 credits due to feedback from industry stakeholders and to align with equivalent unit standard 3642.
- Unit standard 355, 20099, 23554, 26310 and 33186 purpose statement and outcomes have been updated where relevant for improved consistency with the performance criteria descriptions.

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 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

All changes are in **bold**.

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 > Digital Processes for Print

ID	Title	Level	Credit	Review Category
17928	Make plates for digital printing	3	8	D
20097	Produce black and white and colour printed documents using a digital copier	3	15	B
20099	Solve problems on customer supplied files for digital printing	4	40 **30**	B
23554	Demonstrate knowledge of safe working practices in a digital print environment	2	5	B
23828	Print large format documents using a range of media	4	20	B
23829	Apply finishing processes used in large format digital printing	3	15	B
25342	Undertake digital imaging for digital processes for print	4	20	B
25398	Demonstrate knowledge of digital photography, operate a camera and prepare images for production	3	20	B
26118	Draw vector and raster illustrations using illustrative techniques for digital printing processes	4	20	B
26692	Produce dynamic documents containing variable data using a digital printer	3	10	B
26693	Identify and operate stand-alone finishing equipment in a retail digital print environment and prepare jobs for despatch	3	10	B
27668	Demonstrate industry knowledge for digital printing	3	15	B
27669	Demonstrate knowledge of typography and design a logotype	5	20	D
27772	Produce jobs on a digital press	4	35	B
27881	Create simple jobs using digital processes for printing	3	20	B
27883	Create and design documents digitally for printing	4	30	B
27884	Prepare and present digital files for printing	4	25	B
28074	Demonstrate knowledge of colour and its management for the print industry	4	20	B
28075	Produce interactive pdf files for online or screen display	4	20	B
33188	**Demonstrate knowledge of typography**	**4**	**15**	**New**

Manufacturing > Printing > Dry Offset

ID	Title	Level	Credit	Review Category
12372	Carry out advanced maintenance for dry offset equipment	4	5	B
12373	Make ready a press for dry offset single colour printing	3	40 **30**	B
12374	Print single colour work on a dry offset press	3	10	B
12375	Wash up a dry offset press	3	4	B
12376	Undertake advanced pre-make ready for dry offset printing	4	12	D

ID	Title	Level	Credit	Review Category
12377	Make ready a press for multicolour dry offset printing	4	10 **15**	B
12378	Print multicolour close register work on a dry offset press	4	20	B
12379	Handle and store substrates used for dry offset printing	3	4	B
12380	Make ready and print four or more colour process dry offset work	4	25	D
19462 **33185**	Assist machine operator for dry offset printing **Assist print operator for dry offset printing**	2 **3**	15	C
23408	Demonstrate industry knowledge for dry offset printing	3	8	D
33183	**Undertake pre-make ready for dry offset printing**	**4**	**8**	**New**
33186	**Demonstrate industry knowledge relevant to dry offset printing**	**3**	**15**	**New**

Manufacturing > Printing > Printing - Reel-Fed

ID	Title	Level	Credit	Review Category
2256	Carry out advanced maintenance for reel-fed presses and equipment	4	5	B
16512	Set up an infeed system on a reel-fed printing press	3	3	B
16513	Web up a reel-fed printing press	2	3	B
16522	Load and prepare substrates for reel-fed printing	2	3	B
16526	Demonstrate knowledge of, calculate requirements for, and handle and store substrates used for reel-fed printing	3	5 **6**	B
26310	Undertake pre-make ready for reel-fed printing	3	12	B
26311	Wash up a reel-fed printing press	3	5	B
26312	Make ready and produce single process work for reel-fed printing	3	50	B
26313	Make ready and produce multiple process work for reel-fed printing	4	35	B
26314	Assist press operator on a reel-fed printing press	2 **3**	12 **15**	B
26315	Demonstrate industry knowledge for reel-fed printing	3	15	B
26316	Undertake laminating on a reel-fed machine	4	12	B

Manufacturing > Printing > Printing - Sheet-Fed

ID	Title	Level	Credit	Review Category
355	Undertake pre-make ready for sheet-fed offset printing	3	20	B
365	Wash up a sheet-fed offset printing press	3	5	B
10920	Assist press operator for sheet-fed offset printing	2 **3**	15	B
16509	Demonstrate knowledge of, calculate requirements for, and handle and store substrates used for sheet-fed printing **Demonstrate knowledge of, and handle and store substrates used for sheet-fed printing**	3	5 **6**	B
26318	Make ready a sheet-fed offset printing press for spot colour work	3	30	B
26319	Print spot colour close register sheet-fed offset work	3	40	B
26320	Make ready and print four colour process sheet-fed offset work	4	35	B
26321	Demonstrate industry knowledge for sheet-fed printing	3	15	B
26322	Apply coatings using a sheet-fed press	4	12	B