

**Field**      **Manufacturing**

### Review of *Paper Making* standards

Subfield	Domain	ID
Wood Fibre Manufacturing	Paper Making	3523, 3577, 3582, 3584, 3592, 3595, 3602, 12900, 12903, 15815-15817, 22982, 23074-23076

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

**Date new versions published**

**November 2023**

**Planned review date**

**December 2028**

### Summary

Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council initiated a combined review of the qualification New Zealand Certificate in Pulp and Paper Manufacturing Level 4 [Ref: 2320] and unit standards in the Paper Making, Pulp and Paper Chemical Plant, Pulp and Paper Manufacturing, Pulp and Paper Technology, Pulp Making domains. This review was triggered by the regular 5-year review cycle. The Technical Advisory Group (TAG) consisted of industry and provider representatives who have consent to assess. TAG meetings occurred between May 2022 and June 2023.

Those unit standards listed above that are being used were updated in line with current industry practices, standards, acts and regulations. This was done in consultation with industry representatives and providers with consent to assess during many online TAG meetings.

Unit standards that have little or no usage in the past five years or more have been due to low staff turnover across the Pulp and Paper Manufacturing Industry, however industry analysis has identified that 30% of staff are expected to leave the workforce over the next three years due to retirement and it is anticipated these standards will be needed to upskill the replacement workforce.

### Main changes

- Standard setting body was updated from Competenz to Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council.
- Guidance information and document formatting have been updated across the domain 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.
- Titles of unit standards 3577, 15817 and 22982 have been updated to better align with the standards' content.
- Title of unit standard 3584 has been updated as the calendaring operation is not used in pulp making.
- Title of unit standard 12900, and other relevant unit standards which include the outcome 'Maintain and operate' have been amended to 'Operate' to align with the performance criteria.
- Performance criteria and range statements have been updated where relevant to reflect the level, outcomes and current pulp and paper industry practices.
- Range statements in many unit standards have been amended to soft range statements

- due to the different plant, equipment and resources available in each industry setting.
- Relevant standards which include the performance criteria 'Preventative maintenance and cleaning' has been reworded to 'Essential care and housekeeping requirements' since the term 'maintenance' was incorrectly interpreted as undergoing maintenance checks in a maintenance schedule which are not the operators' duties.
- Relevant standards with the Range 'lock-out' have been changed to 'lock-out or tag-out'.
- The credit value of unit standard 22982 has been reduced from 20 credits to 15 credits, since processes have become simplified and does not require 200 hours of learning and assessment that was originally anticipated.
- Unit standards 3582 and 23076 have been set to expire without replacement because industry have identified that the plant and processes are no longer used in New Zealand Pulp and Paper Manufacturing Industry.
- Unit standard 23075 has been set to expire with a new replacement unit standard 33296 due to major changes to the title, credit value and removal of outcome 1 as 'cores' are no longer being made.

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

The last date for assessment of the most recent superseded version of Category B unit standards is **31 December 2025**.

The last date of assessment for earlier superseded versions of Category B unit standards is **31 December 2024**

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

All changes are in **bold**.

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

### Manufacturing > Wood Fibre Manufacturing > Paper Making

ID	Title	Level	Credit	Review Category
3523	Refine paper furnish at low consistency	4	10	B
3577	Disperse softened coloured material in repulped waste for paper making <b>Disperse coloured material in repulped waste for paper making</b>	4	10	B
3582	Dry paper web using infra-red dryers	4	5	D
3584	Calender pulp and paper <b>Calender in the paper making process</b>	4	10	B
3592	Wrap paper reels with paper	3	5	B
3595	Re-pulp dry furnish	4	5	B
3602	Make parent reel	4	5	B
12900	Operate and maintain a paper winder <b>Operate a paper winder</b>	4	15	B
12903	Maintain paper product records	3	5	B
15815	Form paper web from wood pulp furnish	4	25	B
15816	Blend chemical additives for paper production	4	5	B

<b>ID</b>	<b>Title</b>	<b>Level</b>	<b>Credit</b>	<b>Review Category</b>
15817	Operate paper web profiling system <b>Operate a paper web profiling system</b>	4	10	B
22982	Troubleshoot paper making operations <b>Troubleshoot a paper making operation</b>	4	20 <b>15</b>	B
23074	Store and load dry furnish for re-pulping	4	10	B
23075	Prepare cores and make paper joins for paper products	3	5	C
<b>33296</b>	<b>Make paper joins for paper products</b>	<b>3</b>	<b>3</b>	<b>NEW</b>
23076	Crepe and dry paper web	4	20	D