

Title	Explain fundamentals of paper finishing		
Level	3	Credits	5

Purpose	People credited with this unit standard are able to: explain fundamentals of paper winding, and identify and explain paper structure and quality problems related to finishing and end use.
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Classification	Wood Fibre Manufacturing > Pulp and Paper Technology
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Available grade	Achieved
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Guidance Information

All performance criteria must be demonstrated and assessed in accordance with the reference text: *Explain fundamentals of paper finishing* published by Competenz and available from Competenz at <http://www.competenz.org.nz/>, or Competenz, PO Box 9005, Newmarket, Auckland 1149.

Outcomes and performance criteria

Outcome 1

Explain fundamentals of paper winding.

Performance criteria

1.1 Purpose of winding paper is described in terms of customer requirements and end use.

1.2 Winder system components are identified and their functions are explained.

Range components – parent roll, unwind stand, lead roll, spreader bars, slitter band roll, slitter, rider roll, reel eject bar, winder drums, reel lowering table, tension control programme, rider roll relief system, winder drum torque differential.

1.3 Factors influencing paper reel structure are explained.

Range web tension, rider roll relief, winder drum torque differential.

- 1.4 Faults caused by incorrect winding operation are identified and their remedies are explained.

Range level, edges, holes, starring, soft reels, dishing, run in, steps, bursts, creases, protruding and recessed cores, pinched (crushed) cores, rough slit, reel bounce.

Outcome 2

Identify and explain paper structure and quality problems related to finishing and end use.

Performance criteria

- 2.1 Differences between surface and edge dust are compared in terms of impact on the end user.
- 2.2 Causes of surface and edge dust are identified and remedies are explained.
- 2.3 Types of paper curl are identified and their causes are explained.
- 2.4 Impacts of paper curl on final customer operations are described.

This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	30 November 2000	31 December 2025
Review	2	18 December 2006	31 December 2025
Review	3	24 October 2014	31 December 2025
Review	4	30 November 2023	31 December 2025

Consent and Moderation Requirements (CMR) reference

0173

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