

Title	Make parent reel		
Level	4	Credits	5

Purpose	People credited with this unit standard are able to: demonstrate knowledge of making parent reels; operate the parent reeling system and dry end pulper; and monitor and control the performance of the parent reeling system.
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Classification	Wood Fibre Manufacturing > Paper Making
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Available grade	Achieved
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Guidance Information

1 Legislation and references

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;
- Resource Management Act 1991;
- Health and Safety at Work (Major Hazard Facilities) Regulations 2016.

2 Definitions

Operating parameters refers to the boundary conditions in which the operations are carried out in making parent reels.

Operating procedures refers to the process(es) that are worked through, e.g. standard operating procedure (SOP) in making parent reels.

Parent reels are also known as jumbo reels or machine reels.

Reel drum is also referred to as a pope reel.

Worksite documentation refers to organisation policies and procedures that are documented in memo, electronic, or manual format and available in the workplace, and are consistent with manufacturer's requirements. 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, references, approved codes of practice, housekeeping standards, environmental considerations, sustainability, on-site briefings, supervisor's instructions, and procedures to comply with legislative and local body requirements relevant to the paper making industry.

3 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, worksite documentation and legislative requirements. This includes the knowledge and use of suitable tools and equipment.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of making parent reels.

Performance criteria

- 1.1 Purpose and function of making parent reels are explained.
- 1.2 Operating principles of making parent reels are explained in terms of diameter, weight, butt ends, bottoms, breaks, alignment, speed, and reel changing.
- 1.3 Operating components and process controls of paper reeling systems are described and their purpose is explained.
- Range components may include but are not limited to – primary and secondary arms, reel drum, parent reel, secondary rails, hydraulic system, air system, tail feeder system, doctor, reel changing system, dry end pulper.
- 1.4 Hazards associated with making parent reels are identified and actions to be taken to minimise, or eliminate the hazards are described.
- Range hazards may include but are not limited to – nips, moving plant, paper cuts.
- 1.5 Consequences of non-compliance of parent reels with worksite operating procedures are described.
- 1.6 Roles and responsibilities of the paper reeling system operator are described.

Outcome 2

Operate the parent reeling system and dry end pulper.

Performance criteria

- 2.1 Safe work practices associated with the parent reeling system and dry end pulper are demonstrated.
- Range practices may include but are not limited to – isolation procedures, lock-outs or tag-outs, emergency stops, machine guarding, wearing appropriate safety equipment.
- 2.2 Parent reeling system and dry end pulper are set up, started up, operated, and shut down.

2.3 Operating parameters are set and adjusted to enable production requirements to be achieved.

Range operating parameters may include but are not limited to – tension, alignment, diameter, weight; production requirements – paper quality, reel changes, bottoms, butt ends.

2.4 Essential care and housekeeping requirements are carried out.

Outcome 3

Monitor and control the performance of the parent reeling system.

Performance criteria

3.1 Performance of the parent reeling system is monitored, and parameters are controlled in accordance with operating parameters.

Range product quality may include but is not limited to – material breaks, tension, alignment, reel defects; process requirements – reel changes, reel identification; plant performance – paper machine speed, reeler reject rates.

3.2 Operating and equipment faults and malfunctions are identified, and relevant corrective actions are taken.

Range equipment faults and malfunctions may include but are not limited to – electrical, mechanical, hydraulic, pneumatic.

3.3 Size and quality of built parent reel are monitored to meet specified requirements.

3.4 Marking of parent reel for variations in quality is carried out.

3.5 Production, maintenance, and quality records are completed.

Planned review date	31 December 2028
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	22 February 1995	31 December 2024
Revision	2	27 January 1997	31 December 2024
Review	3	25 February 1999	31 December 2024
Review	4	18 December 2006	31 December 2024
Review	5	24 October 2014	31 December 2025
Review	6	30 November 2023	N/A

Consent and Moderation Requirements (CMR) reference

0173

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.