

<b>Title</b>	<b>Operate a paper web profiling system</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>10</b>

<b>Purpose</b>	People credited with this unit standard are able to: demonstrate knowledge of a paper web profiling system; operate a paper web profiling system; and monitor and control the performance of a paper web profiling system.
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<b>Classification</b>	Wood Fibre Manufacturing > Paper Making
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<b>Available grade</b>	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 Definition

*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.

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## Outcomes and performance criteria

### Outcome 1

Demonstrate knowledge of a paper web profiling system.

**Performance criteria**

- 1.1 Purpose and function of a paper web profiling system are explained.
- 1.2 Operating components of a paper web profiling system and associated distributed control systems (DCS) are described, and their role and operation are explained.
- Range system components may include but are not limited to – steambox, steam shower, slice actuator, moisturiser, calcoil, localised drying systems, distributed control system.
- 1.3 Operating principles of a paper web profiling system are explained.
- Range operating principles may include but are not limited to – cross-directional basis weight, thickness, and moisture controls.
- 1.4 Operating parameters and capability of the forming, pressing, and drying stages are explained.
- Range operating parameters may include but are not limited to – grammage, thickness, moisture profiles.
- 1.5 Hazards associated with paper web profiling systems are identified and actions to be taken to minimise, or eliminate the hazards are described.
- Range hazards may include but are not limited to – radiation sources, moving components, heat.
- 1.6 Consequences of non-compliance of paper web profiling with worksite operating procedures are described.
- Range consequences may include but are not limited to – terms of paper reel runnability, customer reel quality, equipment damage, production loss, personal hazard.
- 1.7 Roles and responsibilities of the paper web profiling system operator are described.

**Outcome 2**

Operate a paper web profiling system.

**Performance criteria**

- 2.1 Safe work practices associated with the paper web profiling system 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 Paper web profiling system is 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 – steam, water spray position, drying element position;  
production requirements may include but are not limited to – evenness of cross-directional grammage profile, moisture profile, thickness.
- 2.4 Essential care and housekeeping requirements for the paper web profiling system are carried out.

### Outcome 3

Monitor and control the performance of a paper web profiling system.

#### Performance criteria

- 3.1 Paper web profiling systems are monitored, and parameters are controlled for plant performance and product quality in accordance with operating parameters.
- Range plant performance may include but is not limited to – production rate, steam consumption;  
product quality may include but is not limited to – cross-directional basis weight, moisture profiles, thickness profiles.
- 3.2 Operating and equipment faults and malfunctions are identified, and relevant corrective actions are taken.
- 3.3 Cross-directional basis weight, thickness and moisture variations of output paper is monitored to meet specified requirements.
- 3.4 Production rate is regulated in accordance with process requirements.
- 3.5 Production, maintenance, and quality records are completed.

<b>Planned review date</b>	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	25 February 1999	31 December 2024
Review	2	18 December 2006	31 December 2024
Review	3	24 October 2014	31 December 2025
Review	4	30 November 2023	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0173
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

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### Comments on this unit standard

Please contact Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council [qualifications@hangaarorau.nz](mailto:qualifications@hangaarorau.nz) if you wish to suggest changes to the content of this unit standard.