

<b>Title</b>	<b>Operate 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: explain the fundamentals of a paper web profiling system; operate and maintain a paper web profiling system efficiently; and monitor and control the efficient 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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### Explanatory notes

- 1 Definition  
*Worksite documentation* refers to instructions to staff on policy and procedures (including the application of legislation to worksite situations) which are formally documented, and are available for reference at the worksite. Examples are standard operating procedures, specifications, manuals, and manufacturer's information.
- 2 The following apply to the performance of all outcomes of this unit standard:
  - a All work practices must meet recognised codes of practice and documented worksite health and safety and environmental procedures (where these exceed code) for personal, product, and worksite health and safety, and must meet the obligations required under current legislation, including the Health and Safety in Employment Act 1992, the Resource Management Act 1991, and their subsequent amendments.
  - b All work practices must meet documented worksite operating procedures. This includes the recording (by electronic or non-electronic means) of activities, events, and decisions.
  - c All communications made in relation to this unit standard must be made in accordance with worksite procedures for content, recipient, timing, and method.

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### Outcomes and evidence requirements

#### Outcome 1

Explain the fundamentals of a paper web profiling system.

#### Evidence requirements

- 1.1 Purpose and function of a paper web profiling system is explained in accordance with worksite documentation.

- 1.2 Operating components of a paper web profiling system and associated distributed control systems (DCS) are identified, and their role and operation are explained, in accordance with worksite documentation.
- Range examples of system components are – 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 in terms of cross-directional basis weight, thickness, and moisture controls.
- 1.4 Operating parameters and capability of the forming, pressing, and drying stages are explained in accordance with worksite documentation.
- 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 isolate, minimise, or eliminate the hazard are described in accordance with worksite documentation.
- Range hazards may include but are not limited to – radiation sources, moving components, heat.
- 1.6 Consequences of non-conformance of paper web profiling with worksite operating procedures are described in accordance with worksite documentation.
- Range may include but is 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 in accordance with worksite documentation.

## Outcome 2

Operate and maintain a paper web profiling system efficiently.

### Evidence requirements

- 2.1 Safe work practices associated with the paper web profiling system are identified and used in accordance with worksite documentation and legislative requirements.
- Range practices may include but are not limited to – isolation procedures, lock-outs, emergency stops, machine guarding, wearing appropriate safety equipment.
- 2.2 Paper web profiling system is set up, started up, operated, and shut down efficiently in accordance with worksite documentation.

2.3 Setting and timely adjustment of operating parameters enables production requirements to be achieved in accordance with worksite documentation.

Range operating parameters –steam, water spray position, drying element position;  
production requirements – evenness of cross-directional grammage profile, moisture profile, thickness.

2.4 Preventative maintenance and cleaning requirements for the paper web profiling system are carried out in accordance with worksite documentation.

### Outcome 3

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

#### Evidence requirements

3.1 Monitoring and interpretation of the paper web profiling system feedback information and the timely adjustment of control parameters enable process product quality, efficient plant performance, and process and legislative requirements to be maintained in accordance with worksite documentation.

Range plant performance – production rate, steam consumption;  
product quality – cross-directional basis weight, moisture profiles, thickness profiles.

3.2 Operating and equipment faults and malfunctions are identified, and corrective action is taken, in accordance with worksite documentation.

3.3 Output paper meets the requirements of worksite documentation for cross-directional basis weight, thickness, and moisture variations.

3.4 Production rate is regulated in accordance with worksite documentation and process requirements.

3.5 Production, maintenance, and quality records are explained and completed in accordance with worksite documentation.

<b>Planned review date</b>	31 December 2019
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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	N/A
Review	2	18 December 2006	N/A
Review	3	24 October 2014	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>.

**Please note**

Providers must be granted consent to assess against standards (accredited) by NZQA, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMR). The CMR also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

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**Comments on this unit standard**

Please contact Competenz [qualifications@competenz.org.nz](mailto:qualifications@competenz.org.nz) if you wish to suggest changes to the content of this unit standard.