

Title	Operate a coating machine for print production		
Level	3	Credits	30

Purpose	People credited with this unit standard are able to: follow safety requirements for the machine being operated; check documentation and confirm requirements for the job are available; make ready the coating machine for production running; run the coating machine to meet the job requirements; wash up the coating machine and carry out post-press tasks; and carry out maintenance on the machinery being operated.
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Classification	Printing > Printing Production
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Available grade	Achieved
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Prerequisites	Unit 340, <i>Demonstrate knowledge of safe working practices in the print industry</i> , or demonstrate equivalent knowledge and skills.
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Guidance Information

- 1 All workplace practices must meet any applicable and recognised codes of practice, and documented workplace health, safety, and environmental procedures for personal, product, and workplace health, safety, and environmental matters, and the obligations required under current law including the Health and Safety in Employment Act 1992, Resource Management Act 1991, and their subsequent amendments.
- 2 **Definitions**
Job requirements refer to specific requirements for the job at hand. These requirements may or may not be covered in the job documentation and may include special instructions, quality requirements expected by the customer, and/or production standards as set down by the workplace and/or company.
Required standards refer to the production standards set down by the workplace and/or company, and the quality standards expected by the customer for the finished product.
Workplace practices refer to the documented procedures for the machine and/or workplace.

Outcomes and performance criteria

Outcome 1

Follow safety requirements for the machinery being operated in accordance with workplace practices.

Performance criteria

- 1.1 Machine start-up, shutdown, and emergency procedures in the workplace are explained and followed.
- 1.2 Risk awareness and hazard control measures, as circulated by the company, are described and followed.
- 1.3 Potential and actual hazards in the workplace are identified and reported.

Outcome 2

Check documentation and confirm requirements for the job are available in accordance with workplace practices.

Performance criteria

- 2.1 Job documentation is checked to ensure that all specifications for the process being undertaken are complete, and any discrepancies are reported.
- 2.2 Components required for the job are checked against the job documentation and their availability is confirmed.
- 2.3 Equipment, as determined by the job documentation, is confirmed as available.
- 2.4 Coating materials required to meet job requirements are described in terms of their characteristics and uses.

Range coating materials may include but are not limited to – ultraviolet (UV), spirit, aqueous.

Outcome 3

Make ready the coating machine for production running in accordance with workplace practices.

Performance criteria

- 3.1 Sheet control systems are set to suit the substrate feeding requirements.

Range feeder, feedboard, sheet guide, flame treatment, sheet infeed system, delivery.
- 3.2 Impression cylinder make-ready is undertaken to meet the job requirements.
- 3.3 Application roller is set to suit substrate.
- 3.4 Metering roller is adjusted and set to application roller ensuring that an even covering is achieved.

3.5 Drying system is set to meet the job requirements.

Range may include but is not limited to – gas, ultraviolet (UV), infra-red (IR), forced air.

3.6 Coating system is set up, and a test is undertaken to ensure that machine and job requirements are met.

Range associated test requirements may include but are not limited to – grammage, gloss, viscosity, barrier resistance, slip, scuff, blocking.

Outcome 4

Run the coating machine in accordance with workplace practices to meet the job requirements.

Performance criteria

4.1 Substrate is loaded into machine and positioned to meet the job requirements.

4.2 Job is run at an output level that is consistent with the required standards to ensure the job requirements are met.

4.3 Quality control checks are maintained throughout the run.

Range depending on job requirements, checks may include but are not limited to – coating thickness, no pin holes, register, finish, gloss level, barrier resistance, slip (co-efficient of friction).

4.4 Drying system is checked throughout the run and any drying faults are rectified.

4.5 Faults encountered during the production run are rectified.

Range faults may include but are not limited to – spots, finish, blocking, fill in, mis-register, reticulation, adhesion, coating build-up.

Outcome 5

Wash up the coating unit and carry out post-press tasks in accordance with workplace practices.

Performance criteria

5.1 Coating unit is washed up using selected materials.

5.2 Machine and components are cleaned to ensure that all coating is removed.

5.3 Work area surrounding machine is cleaned.

5.4 Job documentation is completed.

5.5 Other post-press tasks are carried out.

Range may include but is not limited to – labelling, substrate handling, quality assurance requirements.

5.6 Waste control procedures are followed.

Range recyclable waste, non-recyclable waste, security waste.

Outcome 6

Carry out maintenance on the machinery being operated in accordance with workplace practices.

Performance criteria

6.1 Press is inspected, adjusted, and maintained to ensure efficient operation.

6.2 Adjustments and/or maintenance unable to be carried out are reported.

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	21 August 1997	31 December 2025
Review	2	28 February 2001	31 December 2025
Review	3	18 December 2006	31 December 2025
Review	4	21 August 2009	31 December 2025
Review	5	30 March 2023	31 December 2025

Consent and Moderation Requirements (CMR) reference

0005

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