

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.

Subfield Printing

Domain Printing Production

Status Registered

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Entry information Prerequisite: Unit 340, *Demonstrate knowledge of safe working practices in the print industry*, or demonstrate equivalent knowledge and skills.

Accreditation Evaluation of documentation and visit by NZQA and industry.

Standard setting body (SSB) Competenz

Accreditation and Moderation Action Plan (AMAP) reference 0005

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

Special notes

- 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.

Elements and performance criteria

Element 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.

Element 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.

Element 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.

Element 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.

Element 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.

Element 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.

Please note

Providers must be accredited by NZQA, or an inter-institutional body with delegated authority for quality assurance, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be accredited by NZQA before they can register credits from assessment against unit standards.

Accredited providers and Industry Training Organisations assessing against unit standards must engage with the moderation system that applies to those standards.

Accreditation requirements and an outline of the moderation system that applies to this standard are outlined in the Accreditation and Moderation Action Plan (AMAP). The AMAP 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.

Comments on this unit standard

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