



Australian Government

ICPPRN472 Produce complex coated product

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with ICP Printing and Graphic Arts Training Package Version 1.0.

Application

This unit describes the skills and knowledge required to produce complex, coated product on either a reel- or sheet-fed machine.

It applies to individuals who use specialised knowledge and organising and problem-solving skills to ensure efficient production flow and product quality standards are met.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Unit Sector

Printing

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Maintain operations of delivery systems	1.1 Delivery systems are monitored and adjusted to ensure efficient and continuous operation and avoid damage to finished product 1.2 Substrate is added to and removed from process according to job instructions
2. Maintain coating process	2.1 Roller condition is monitored and adjusted to ensure quality of printed product meets the approved proof standard 2.2 Coating system and doctor blade condition (if appropriate) are monitored and adjusted to ensure quality of product meets the approved proof standard 2.3 Drying systems are monitored and adjusted to ensure quality of

ELEMENT	PERFORMANCE CRITERIA
	product meets the approved proof standard 2.4 Quality and viscosity of varnish coatings are monitored and adjusted as necessary to ensure product quality
3. Maintain production process	3.1 Basic or complex in-line printing/converting/binding/finishing processes are monitored and adjusted to ensure quality of product meets the approved proof standard 3.2 Production process is operated in association with fellow workers and according to company specifications and planned daily schedule 3.3 Production is maintained within work health and safety (WHS) requirements, and company and manufacturer's specifications 3.4 Manual and/or automatic control is used as per specification 3.5 Performance is monitored and verified using the process control system according to enterprise procedures 3.6 Coating performance, register and position are monitored and adjusted throughout production run 3.7 Production difficulties are anticipated and preventive action is taken to prevent occurrence by timely intervention 3.8 Process adjustments to eliminate problems are reported according to enterprise procedures 3.9 Waste is sorted according to enterprise procedures
4. Identify and rectify problems	4.1 Faulty performance of equipment is identified and reported according to enterprise procedures 4.2 Problems in coating machine are identified and reported according to enterprise procedures 4.3 Adjustments or corrections are carried out according to specified procedures and consistent with operator's skill level 4.4 Coating machine operation is checked to ensure correct operation
5. Conduct shutdown of production process	5.1 Correct shutdown sequence is followed according to manufacturer's specifications and enterprise procedures 5.2 Shutdown is conducted in association with fellow workers and in compliance with WHS requirements 5.3 Solid and liquid waste is removed from operating area and recycled or disposed of, where required, according to regulatory requirements and enterprise procedures 5.4 All product is removed from operating area

ELEMENT	PERFORMANCE CRITERIA
	5.5 Machine faults requiring repair are identified and reported to designated person according to enterprise procedures 5.6 Repair/adjustment is verified prior to resumption of operations
6. Clean and wash up coating machine at end of print run	6.1 Cylinders, plate and roller surfaces are cleaned ready for next run 6.2 Coating delivery system is washed ready for next run, and liquid waste is disposed of according to company and regulatory requirements 6.3 In-line slitting units are cleaned ready for next run 6.4 Reef feed, transportation and delivery systems are disengaged and cleaned ready for next run 6.5 Production records or other documentation are accurately completed where required by enterprise procedures

Foundation Skills

This section describes language, literacy, numeracy and employment skills incorporated in the performance criteria that are required for competent performance.

Skill	Performance Criteria	Description
Reading	3.2-3.4, 4.3, 5.1	Recognises and interprets text to establish job requirements from information contained within relevant instructions, procedures and specifications
Writing	3.8, 4.1, 4.2, 5.5, 6.5	Completes records, forms and other documents accurately and according to workplace requirements
Oral Communication	3.2, 3.8, 4.1, 4.2, 5.2, 5.5	- Participates effectively in discussions using appropriate vocabulary, questioning and listening skills - Speaks clearly using appropriate vocabulary, tone and pace to report faults and discrepancies
Navigate the world of work	1.1, 1.2, 3.2, 3.3, 3.5, 3.8, 3.9, 4.1-4.4, 5.1-5.3, 5.5, 76.1-6.5	- Complies with legislative requirements and follows organisational policies and procedures relevant to own role - Recognises and follows all procedures for cleaning and maintenance of equipment, incorporating regulatory requirements and enterprise procedures
Interact with	3.2, 3.8, 4.1, 4.2,	Collaborates and cooperates with others to achieve

others	5.2, 5.5	joint outcomes • Contributes to workgroup discussions using accepted conventions • Selects and uses appropriate communication practices when reporting issues
Get the work done	1.1-1.2, 2.1-3.4, 3.1-3.7, 3.9, 4.1-4.4, 5.1-5.4, 6.5, 6.1-6.4	• Determines priorities and sequences steps involved in clearly defined, familiar tasks • Recognises and anticipates an increasing range of familiar problems, their symptoms and causes, actively looking for early warning signs and implementing contingency plans • Follows routine procedures for using digital technology by reading data from electronic monitoring and control systems

Range of Conditions

This section specifies different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

Delivery systems MUST include EITHER:	• reel OR • sheet
Monitoring and adjusting MUST include EITHER:	• reel stand and rewind section • web control system • sheeting section OR • feeder and delivery • sheet pick-up and transport system • transfer and control system

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICPPRN472 Produce complex coated	ICPPR472C Produce complex coated	Updated to meet Standards for Training	Equivalent unit

Code and title current version	Code and title previous version	Comments	Equivalence status
product	product	Packages	

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a74b7a0f-a253-47e3-8be0-5d426e24131d>

Assessment Requirements for ICPPRN472 Produce complex coated product

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Performance Evidence

Evidence of the ability to:

- complete THREE complex coating jobs (one spot coating, one overall coating and one fine detail, using three different coatings – one of which must be metallic, and include at least one in-line process) including:
- producing a complex coated product on either a reel- or sheet-fed machine ensuring an efficient production flow maintaining product quality standards
- anticipate and rectify production problems with minimum downtime
- shutdown and clean the machine according to work health and safety (WHS) guidelines
- use control, monitoring and data entry systems
- find and use information relevant to the task from a variety of information sources.

Note: If a specific volume or frequency is not stated, then evidence must be provided at least once.

Knowledge Evidence

To complete the unit requirements safely and effectively, the individual must:

- outline what to do if vital information is missing from the job ticket
- outline checks to do prior to set up (availability of materials etc.)
- identify major WHS concerns of:
 - setting up the sheet or reel transportation system
 - coating

For reel systems only

- describe the effect:
 - on the print of excessive tension on the rewinding reel
 - if the web is not spliced correctly

- outline precautions to ensure the rewound product is of consistent, acceptable quality

For sheet systems only

- describe the effect of:
 - fanning sheets before loading into the press
 - anti-set off spray on finished job
- explain how to set and check the double sheet detector during the print run
- identify components that can be adjusted to ensure correct delivery in sheet systems
- identify printed material below acceptable standard
- outline what to do if the aqueous coating is smudging on the delivery section of the machine
- explain the effects of :
 - UV lamp on the UV coating
 - varying temperature and volume of hot and cold air knives
 - using IR radiation (including choice of medium or short wave lamps) on coatings
- identify the coating level to maintain in the pan
- explain dangers of solvents and solutions used to clean the coating system, plates, cylinders and press
- identify machine parts to be thoroughly cleaned following the coating of the job
- identify components to be inspected for wear following the print run
- identify records important for following or repeat prints
- identify key types of information in, and the location of, machine manuals, safety and other documentation relevant to this task.
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Assessment Conditions

Gather evidence to demonstrate consistent performance in conditions that are safe and replicate the workplace. Noise levels, production flow, interruptions and time variances must be typical of those experienced in the printing field of work and include access to:

- special purpose tools, equipment and materials
- print machine or a dedicated coating machine.

Assessors must satisfy NVR/AQTF assessor requirements.

Links

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