



**Australian Government**

# **ICPPRN332 Produce complex lithographic printed product**

**Release: 1**

# ICPPRN332 Produce complex lithographic printed product

## 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 lithographic printed product, ensuring an efficient non-routine production flow that maintains product quality standards.

It applies to individuals who work under direct supervision and have some responsibility in ensuring production process is maintained by anticipating production problems and monitoring equipment and machinery.

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 non-routine operation of delivery system | 1.1 Delivery systems are monitored and adjusted to ensure efficient and continuous operation and ensure no damage to finished product<br>1.2 Substrate is added to and removed from process according to job specifications                                                                    |
| 2. Maintain complex lithographic printing process    | 2.1 Non-routine lithographic plate and plate cylinder condition are monitored and adjusted to ensure quality of printed product meets the sample sheet standard<br>2.2 Non-routine lithographic blanket and blanket cylinder condition are monitored and adjusted to ensure quality of printed |

| ELEMENT                                                            | PERFORMANCE CRITERIA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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|                                                                    | <p>product meets the sample sheet standard</p> <p>2.3 Non-routine lithographic impression cylinder condition is monitored and adjusted to ensure quality of printed product meets the sample sheet standard</p> <p>2.4 Non-routine lithographic inking system is checked and maintained to ensure quality of printed product meets the sample sheet standard</p> <p>2.5 Non-routine lithographic dampening system condition is monitored and adjusted to ensure quality of printed product meets the sample sheet standard</p> <p>2.6 Set off / marking prevention and drying system is monitored and adjusted to ensure quality of printed product meets the sample sheet standard</p> <p>2.7 Drying systems are monitored and adjusted to ensure quality of printed product meets the approved proof standard</p>                                                                                                                                                                                                |
| 3. Maintain production process                                     | <p>3.1 Production process is operated in association with fellow workers and according to company specifications and planned daily schedule</p> <p>3.2 Production is maintained within work health and safety (WHS) requirements and company and manufacturer's specifications</p> <p>3.3 Manual and/or automatic control is used as per specification</p> <p>3.4 Performance is monitored and verified using the process control system according to enterprise procedures</p> <p>3.5 Ink performance, colour, register and position of print are monitored and adjusted throughout production run</p> <p>3.6 Production difficulties are anticipated and preventive action is taken to prevent occurrence by timely intervention</p> <p>3.7 Process adjustments to eliminate problems are reported according to enterprise procedures</p> <p>3.8 Faulty performance of equipment is identified and reported according to enterprise procedures</p> <p>3.9 Waste is sorted according to enterprise procedures</p> |
| 4. Identify and investigate lithographic machine operating problem | <p>4.1 Problem in lithographic machine operation is investigated</p> <p>4.2 Problem in lithographic machine is identified and reported according to enterprise procedures</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 5. Rectify minor lithographic machine                              | <p>5.1 Adjustments or corrections are carried out according to specified procedures and consistent with operator's skill level</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

| ELEMENT                                                   | PERFORMANCE CRITERIA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| faults                                                    | 5.2 Lithographic machine operation is checked to ensure correct operation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 6. Conduct shutdown of production process                 | <p>6.1 Correct shutdown sequence is followed according to manufacturer's specifications and enterprise procedures</p> <p>6.2 Shutdown is conducted in association with fellow workers and in compliance with WHS requirements</p> <p>6.3 Unused ink is correctly labelled and stored according to manufacturer's/supplier's specifications and enterprise procedures</p> <p>6.4 Solid and liquid waste is removed from operating area and recycled or disposed of, where required, according to regulatory requirements and enterprise procedures</p> <p>6.5 All product is removed from operating area</p> <p>6.6 Machine faults requiring repair are identified and reported to designated person according to enterprise procedures</p> <p>6.7 Repair/adjustment is verified prior to resumption of operations</p> |
| 7. Clean and wash up printing machine at end of print run | <p>7.1 Cylinders, plate and roller surfaces are cleaned ready for next run</p> <p>7.2 Inking system and dampening system are washed ready for next run, and liquid waste is disposed of according to company and regulatory requirements</p> <p>7.3 In-line printing/converting/binding/finishing units are cleaned ready for next run</p> <p>7.4 Transportation and delivery systems are disengaged and cleaned ready for next run</p>                                                                                                                                                                                                                                                                                                                                                                               |
| 8. Complete records                                       | 8.1 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 | 3.1-3.4, 6.1, 6.3    | <ul style="list-style-type: none"> <li>Recognises and interprets text to establish job requirements from information contained within</li> </ul> |

|                            |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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|                            |                                                                                     | relevant procedures and specifications                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Writing                    | 3.7, 3.8, 4.2, 6.3, 6.6, 6.7, 8.1                                                   | <ul style="list-style-type: none"> <li>Enters routine data associated with production processes and enterprise procedures</li> </ul>                                                                                                                                                                                                                                                                                                                         |
| Oral Communication         | 3.1-3.3, 3.7, 3.8, 4.2, 6.1-6.3, 6.6, 6.7                                           | <ul style="list-style-type: none"> <li>Speaks clearly using appropriate vocabulary, tone and pace to report faults and discrepancies</li> </ul>                                                                                                                                                                                                                                                                                                              |
| Numeracy                   | 1.2                                                                                 | <ul style="list-style-type: none"> <li>Interprets and analyses a range of mathematical information that is used in familiar and routine tasks</li> </ul>                                                                                                                                                                                                                                                                                                     |
| Navigate the world of work | 1.1, 1.2, 2.1-2.7, 3.1-3.5, 3.7-3.9, 4.1, 4.2, 5.1, 5.2, 6.1-6.4, 6.6, 7.1-7.5, 8.1 | <ul style="list-style-type: none"> <li>Recognises and follows explicit and implicit protocols and meets expectations associated with own role</li> <li>Recognises and follows all procedures for cleaning and maintenance of equipment, incorporating regulatory requirements and enterprise procedures</li> </ul>                                                                                                                                           |
| Interact with others       | 3.1-3.3, 3.7, 3.8, 4.2, 6.1-6.3, 6.6, 6.7                                           | <ul style="list-style-type: none"> <li>Cooperates with others as part of familiar routine activities, and contributes to specific activities requiring joint responsibility and accountability</li> <li>Understands what to communicate, with whom and how, in routine work situations</li> </ul>                                                                                                                                                            |
| Get the work done          | 1.1, 1.2, 2.1-2.7, 3.1-3.9, 4.1, 4.2, 5.1, 5.2, 6.1-6.7, 7.1-7.5                    | <ul style="list-style-type: none"> <li>Determines priorities and sequences steps involved in clearly defined, familiar tasks</li> <li>Recognises and anticipates an increasing range of familiar problems, their symptoms and causes, actively looking for early warning signs and implementing contingency plans</li> <li>Follows routine procedures for using digital technology by reading data from electronic monitoring and control systems</li> </ul> |

## 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:         | <ul style="list-style-type: none"> <li>reel</li> </ul> OR <ul style="list-style-type: none"> <li>sheet</li> </ul>                                                                    |
| Monitoring and adjusting MUST include EITHER: | <ul style="list-style-type: none"> <li>reel stand and rewind sections</li> <li>web control system</li> <li>sheeting section</li> <li>set off / marking prevention systems</li> </ul> |

|  |                                                                                                                                                                                                              |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | OR <ul style="list-style-type: none"><li>• feeder and delivery systems</li><li>• sheet pick-up and transportation system</li><li>• transfer systems</li><li>• set/ off/marketing prevention system</li></ul> |
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## Unit Mapping Information

| Code and title<br>current version                      | Code and title<br>previous version                     | Comments                                        | Equivalence status |
|--------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------|--------------------|
| ICPPRN332 Produce complex lithographic printed product | ICPPR332C Produce complex lithographic printed product | Updated to meet Standards for Training Packages | Equivalent unit    |

## Links

Companion Volume implementation guides are found in VETNet -  
<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=a74b7a0f-a253-47e3-8be0-5d426e24131d>