



Australian Government

ICPPRN491 Use on-press monitoring of print quality

Release: 1

ICPPRN491 Use on-press monitoring of print quality

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 use computerised print quality monitoring devices, involving selection of computerised settings to set up and run a press to acceptable tolerances.

It applies to individuals who use specialised knowledge and analytical skills to monitor quality, both electronically and visually, and to make adjustments to maintain print quality.

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. Set up print control devices	1.1 CIP3/CIP4 data, or equivalent, is used to create a profile 1.2 Job is made ready to achieve position, register and fit to specified standards 1.3 Colour is made ready to match appropriate colour standards 1.4 Data is interpreted and appropriate adjustments made to gain supervisor's approval to run press
2. Maintain print quality throughout run	2.1 Print is inspected visually to meet specified standards during run 2.2 Data is analysed against required standards 2.3 Appropriate adjustments are made to maintain consistency

ELEMENT	PERFORMANCE CRITERIA
	throughout run 2.4 Job is monitored and maintained at regular intervals to ensure quality

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	1.1, 1.4, 2.1, 2.2	Checks printed texts against standards
Navigate the world of work	1.2, 1.3, 2.1, 2.2, 2.4	Complies with specific industry standards relevant to own role
Get the work done	1.1-1.4, 2.2-2.4	- Takes responsibility for planning and organising own workload, identifying ways of sequencing and combining elements for greater efficiency and assembles required resources - Responds to predictable problems and implements standard or logical solutions related to role in immediate work environment - Demonstrates a sophisticated understanding of principles, concepts, language and practices associated with the digital world

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICPPRN491 Use on-press monitoring of print quality	ICPPRN491C Use on-press monitoring of print quality	Updated to meet Standards for Training Packages	Equivalent unit

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 ICPPRN491 Use on-press monitoring of print quality

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Performance Evidence

Evidence of the ability to:

- find and use information relevant to the task from a variety of information sources
- set up and align monitoring device to appropriate standards on THREE occasions – standards may be defined by enterprise/operator or default tolerances, client requirements, colour tolerances, and/or industry standards
- produce profiles of samples taken during THREE different print runs that show print production is within agreed tolerances, if possible, using different variables.

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:

- explain colour theory of:
 - additive colours (light), red, green, blue (RGB)
 - subtractive colours (pigments), cyan, magenta, yellow, black (CMYK)
- discuss the relationship between ranges of visual colour RGB and CMYK
- outline International Colour Consortium (ICC) profiling
- describe underlying principles of densitometry and spectrophotometry
- explain how to determine tolerance in densitometry and spectrophotometry
- describe original colour control bar determinates
- outline how to determine accuracy of elements in a colour bar
- explain how to ensure consistent print quality output
- explain how to recognise colour contamination
- describe how to set alarm limits for colour contamination
- describe the process for accessing data and determining that data is appropriate
- explain the purpose of sampling to ensure consistency

- describe processes to put in place if sample varies from standard
- discuss ways quality can vary and how it can be fixed
- outline computerised functions, common faults and electronic registration systems
- describe information needed:
 - from pre-press to ensure quality product
 - to give to pre-press to ensure quality product
- define these terms: registration, fit, position and alignment
- explain the importance of registration marks.

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 including access to a computerised printing machine.

Assessors must satisfy NVR/AQTF assessor requirements.

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