



Australian Government

Assessment Requirements for ICPINK331 Manufacture inks and coatings

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.

Performance Evidence

Evidence of the ability to:

- find, interpret and use information from various sources to carry out tasks according to requirements
- use a mixer disperser and EITHER a bead mill OR a three-roll mill to manufacture TWO batches of ink or coating according to manufacturer's and job specifications, health and safety requirements and enterprise procedures including:
 - selecting, checking and setting up chemicals, ink, materials and equipment
 - carrying out quality checks during blending and making required adjustments to process or equipment
 - completing required records
 - shutting down equipment
 - cleaning and removal of waste.

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:

- identify and briefly describe the enterprise procedures for:
 - using the batch coding system in the work area
 - potting off the mill
 - labelling ink containers
- identify health and safety requirements and environmental issues in relation to:
 - adding powders during the mixing stage of ink manufacture
 - cleaning bowls, vats and pots
 - the manufacture of ink or coating

- the fitting and use of safety equipment
- specify the checks, tests and/or monitoring required during the process including:
 - when preparing containers and equipment for ink or coating manufacture
 - when measuring raw materials for ink production
 - at each stage of the ink or coating manufacture process
 - how the grind of the ink is determined
 - the ink texture and viscosity during the milling process
- explain the technical aspects of the ink or coating manufacturing process including:
 - the purpose of using low speed early in the mixing process
 - the function of antioxidants in the mixing process
 - the factors that determine the position of the mixing head
 - the action taken when the mixture has a skin on it
 - the particular requirements for coating manufacture
 - the characteristics of the end product of the mixing phase of ink manufacture
 - the purpose of and ideal conditions for milling ink
 - the adjustment of the mill for low or high grind values.

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 ink manufacture field of work and include access to:

- enterprise documents and procedures
- raw materials and consumables
- machines and equipment
- cleaning chemicals.

Assessors must satisfy NVR/AQTF assessor requirements.

Links

Companion Volume implementation guides are found in VETNet -

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