



Australian Government

Assessment Requirements for ICPPRN471 Set up for complex coating

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:

- set up for THREE complex coating operations (one spot coating, one overall coating and one fine detail, using three different coatings of which one must be metallic, and include at least one in-line process), including:
 - setting up rollers and reel or sheet systems for coating a range of carbon, carbonless, latex, wax, resin and metallic coatings, aqueous and UV varnishes and machine varnishes
- conduct a proof run and adjusting settings to ensure production speeds are attained
- 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:

- describe key information on the work ticket listing type of coating required
- describe what to do if vital information is missing from the job ticket
- list checks to do prior to set up (availability of materials etc.)
- describe how to choose the coating side of material
- describe the effect of offside lay selection on the job
- explain how to carry out a register check

For reel systems only

- describe the effect of:
 - low web tension on the print
 - inefficient web splices

- explain how to:
 - determine reel position for the job
 - check for a web break
- identify safety risks associated with rewind of the machine
- outline the effect of excessive web tension at rewind of the machine

For sheet systems only

- explain how to:
 - determine sheet position for the job
 - select appropriate front lays
 - check a missing or late sheet
- explain use of a two-sheet cut out on most feeders (sheet)
- describe the effect of:
 - not enough coating on a sheet
 - excessive temperature on the sheet
- describe the effect too much vacuum on the slow-down wheels has on the job
- describe how to determine position of register or bustle wheels
- describe the effect excessive jogging has on the stack
- identify major WHS concerns when setting up the sheet or reel transportation system
- identify WHS concerns relevant to the use of coatings
- list types of coatings and their applications
- explain suitability of the coating for the job
- explain how the coat adheres to the product
- identify the amount of coating required
- describe the range of viscosities to run with on an aqueous coating
- describe the effect of incorrect viscosity on coating
- explain how to adjust viscosity of a coating
- describe methods to solidify coating
- explain drying UV coating
- describe the printing principle being utilised to apply aqueous coating
- explain why gluing tabs are not coated
- identify the temperature the drier is set at to dry aqueous coating
- explain when to use different image carriers (plate or blanket)
- outline the effect skeleton wheels can have on the coating surface
- describe how to measure the amount of gloss on the surface
- outline organisational responsibility for the final approval on the job
- describe the effect in the following scenarios:
 - UV coating on a wet print
 - viscosity is too high or too low
 - ink coverage is excessive, i.e. over 250%

- identify key types of information in, and the location of, machine manuals, safety and other documentation relevant to this task.

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, including a dedicated coating machine.

Assessors must satisfy NVR/AQTF assessor requirements.

Links

Companion Volume implementation guides are found in VETNet -

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