



Australian Government

**Assessment Requirements for ICPSCP333
Automatically prepare direct emulsion
stencil**

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:

- correctly prepare TWO different direct emulsion stencils using automatic coating equipment
- expose, wash and dry the screen according to manufacturer and job specifications, enterprise procedures and occupational health and safety requirements.

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 the influence that the mesh count has on the final printed product
- outline the importance of correct screen tension
- explain the different tensions required for screens of various mesh counts and grades
- outline the degreasing or cleaning techniques that are employed prior to coating the screen
- describe information that is contained in material safety data sheets (MSDS) for the emulsion being used
- identify the work health and safety (WHS) requirements that need to be considered for exposure to UV light sources
- identify the pollution and environmental issues that need to be considered when working with emulsions
- outline the maintenance that is required for the automatic coating machine
- describe two different emulsions used in screen printing and outline their characteristics, their shelf life and areas of use
- discuss the preparation formula for one emulsion and its storage requirements
- describe the need to have the correct illumination in the work area

- discuss the influence that the length of run and ink or dye being used have on the coating technique, the number of coats of emulsion and the best method of coating the screen
- outline the factors that are taken into consideration to determine the angle at which the coaters coat the screen
- describe the appropriate position (horizontal or vertical) for drying the screen and the effect that each of these positions has on the way the emulsion dries
- describe the effect of heat on the emulsion during the drying process and the function and use of a light integrator
- describe the procedure for exposing the stencil and the effect that the position, angle and distance of the light source have on the exposure process
- describe the importance of perfect contact between positive and screen during exposure
- identify the effect that temperature, pressure and time taken have on the washing out process and wash-out completion
- identify the ideal position of the screen for drying to prevent scum and streaking and the impact of post-curing on the stencil
- describe information obtained from the MSDS for this particular blackout
- identify the bearing of ink to be used on a particular stencil and the type of stencil on the type of blackout
- name the preventive measures that can be taken to minimise pinholes
- explain the importance of taping the edge of the frame and the squeegee edge, and the means used to identify the screen at a later date
- identify required manuals, safety and other documentation and briefly outline the relevant information in each source
- explain where you might find other relevant sources of information.

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 screen printing field of work and include access to chemicals and relevant equipment.

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>