

PROMP204 (SQA Unit Code – H9J2 04)

Set and operate ink drying equipment



Overview

This standard involves:

- 1 finding out what production is required
- 2 getting the materials you need
- 3 operating drying machines safely
- 4 checking that the output meets quality requirements
- 5 identifying faults and taking action to deal with them

Performance criteria

Set up ink drying equipment

- You must be able to:
- P1 check that you have all the details you need for the job
 - P2 check that you have enough materials of the right type for the job
 - P3 promptly report to your manager if the material provided is not correct or sufficient
 - P4 check that your work area is safe and ready for production
 - P5 set up ink drying equipment to run efficiently and safely, so that:
 - P5.1 substrates are forwarded continuously without damage or distortion
 - P5.2 the equipment runs at the required running speed
 - P5.3 quality standards can be achieved during production
 - P6 ink drying equipment is synchronised with the operation of printing machines
 - P7 produce a sample from the machine and check that it matches the required standards
 - P8 make adjustments when the standards are not met
 - P9 report to your manager, if the standards cannot be met

Run and monitor ink drying equipment

- You must be able to:
- P10 keep the drying temperature at the level required
 - P11 run the machine at the required speed, safely and efficiently
 - P12 keep up the supply of materials throughout the run
 - P13 accurately identify and correct mechanical faults which it is your job to rectify
 - P14 accurately identify and promptly report mechanical faults, which it is not your job to correct
 - P15 check that equipment is safe to operate, once faults are corrected
 - P16 accurately record production and quality assurance details
 - P17 check regularly that:
 - P17.1 the quality of the image meets the required standard during drying activities
 - P17.2 drying is achieved in the expected time
 - P18 clearly mark waste materials for disposal
 - P19 follow the correct procedures for the removal of waste
 - P20 stack work safely, using the approved method
 - P21 forward finished work to the correct location
 - P22 accurately record the production and quality assurance details

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Knowledge and understanding

You need to know and understand:

Set up drying equipment

- K1 what details you need for the job
- K2 the principles of ink curing and drying
- K3 the risks associated with ink drying units and how to avoid them
- K4 your company's safety procedures for operating ink drying equipment
- K5 common faults which can occur when operating ink drying equipment, what causes them and how to correct them
- K6 how to recognise when you should correct faults yourself and when you should ask for help
- K7 to whom you must report faults
- K8 what production and quality assurance records you are required to keep

Run and monitor ink drying equipment

You need to know and understand:

- K9 the principles of ink curing and drying
- K10 your company's quality standards
- K11 why it is important to maintain the quality of the image throughout the run
- K12 the procedures for the removal of waste from your machine
- K13 what production and quality assurance records your are required to keep

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Additional information

Scope / range: You must show that you can run ink drying equipment and maintain the quality of output from ink drying consistently, over a period of time.

You must show that:

- 1 you maintain the throughput of the following types of ink drying processes:
 - jet air drying
 - UV curing
 - catalytic curing
 - evaporation
- 2 you determine action to remedy faults:
 - to be taken by yourself
 - to be taken by others
- 3 you can identify faults in:
 - the operation of equipment
 - the substrate
 - the drying rate of the ink

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| Developed by | Proskills |
| Version number | 1 |
| Date approved | October 2013 |
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| Validity | Current |
| Status | Original |
| Originating organisation | Proskills |
| Original URN | PROMP204 |
| Relevant occupations | Originators compositors and print preps; Printers; Screen printers; Printing machine minders and assistants; Bookbinders and print finishers; Graphic designers |
| Suite | Machine Printing |
| Key words | machines; printing; lithographic; equipment; flexographic; operate; maintain; inks; coatings; |
