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### Overview

This standard is for those who print designs onto fabric using rotary, ink jet or screen printing techniques.

The job role may involve:

1. Preparing the work area for printing.
2. Establishing requirements and specifications.
3. Setting up, starting, monitoring and completing the printing process.
4. Monitoring and controlling the quality of the process.
5. Meeting customer specifications.
6. Protecting the quality of the product during transfer or storage.

# SKSMSP9- SQA Unit Code H9EH 04

## Printing fabric

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### Performance criteria

- You must be able to:*
- P1 identify the correct material batches from job sheets / ID tags
  - P2 establish and confirm specifications required
  - P3 prepare images (pre-press) supplied by customers
  - P4 ensure sufficient support services are available to commence processing
  - P5 ensure sufficient quantities of print pastes and auxiliaries from the colour mixer / weight at the correct time
  - P6 identify and report any faults with the raw materials
  - P7 ensure relevant risk control measures are in place
  - P8 lift and move materials safely using the correct lifting procedures
  - P9 ensure that the work area is suitable and free from any hazards and obstructions and complies with company procedures and work systems
  - P10 load items / products correctly dependant on the machine and material type
  - P11 check print paste's consistency / viscosity
  - P12 place print paste and auxiliaries in the proper section of the machine in the correct order
  - P13 ensure materials are used in the correct order
  - P14 select the appropriate machine program and adjust machine settings and parameters as required for printing
  - P15 carry out start-up checks
  - P16 check for blockages
  - P17 start, carry out and monitor the printing process meeting the given specifications
  - P18 detect and report equipment faults or defects within own limits of responsibility
  - P19 inspect printed items and report or rectify faults within limits of own responsibility
  - P20 identify, mark and segregate faulty products as required
  - P21 forward the completed batch to the next stage of the production process or to a suitable containment or storage area
  - P22 work within timescales
  - P23 comply with company procedures and systems of work
  - P24 complete relevant documentation
  - P25 clean machinery and equipment in preparation for printing the next batch
  - P26 dispose of waste following company procedures

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## Printing fabric

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### Knowledge and understanding

*You need to know and understand:*

- K1 the types and importance of information given in a process specification and job sheet / ID
- K2 recognition of different colours across the full spectrum
- K3 the importance of good colour vision
- K4 technical considerations with different fibre and fabric type
- K5 evaluation techniques of inherent fabric flaws
- K6 the importance of sufficient raw materials and support services
- K7 how to assess customer needs and meet customer specifications
- K8 printing processes and techniques
- K9 screen mesh type and how this relates to fabric type and colours used
- K10 fixation processes required for different dye classes
- K11 quality control including shade, handling and continuity
- K12 the implications for order size and product type on the machine set up and the printing process
- K13 materials/ chemicals used in different processes
- K14 faults with raw materials or equipment and how to deal with them appropriately
- K15 why processed and part-processed materials, excess materials and recoverable by-products should be separated out during production
- K16 the importance of monitoring the process and ensuring quality requirements are met
- K17 levels of product stability throughout the printing process
- K18 machine programs, settings and adjustments i.e. roller pressure, bed height and drying temperature
- K19 awareness of machine loading procedures
- K20 chemical handling procedures
- K21 general plant awareness, the significance of boiler for steam, compressor, and the water softener
- K22 limits of personal responsibility
- K23 waste disposal, company waste procedures and systems
- K24 the organisation's rules, codes, guidelines and standards
- K25 production targets
- K26 quality systems and procedures
- K27 communicate effectively with colleagues and customers
- K28 limits of personal responsibility
- K29 the importance of keeping accurate records
- K30 the importance of complying with written instructions
- K31 equipment operating and cleaning procedures and machine manufacturer's instructions
- K32 machine preparation (temperature, pressure, settings etc.)
- K33 statutory responsibilities under health, safety and environmental

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Printing fabric

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legislation and regulations

# SKSMSP9 - SQA Unit Code H9EH 04

## Printing fabric

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<b>Developed by</b>	Creative Skillset
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<b>Version number</b>	2
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<b>Date approved</b>	January 2013
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<b>Indicative review date</b>	April 2017
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<b>Validity</b>	Current
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<b>Status</b>	Original
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<b>Originating organisation</b>	Creative Skillset
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<b>Original URN</b>	MSP9; MSP10
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<b>Relevant occupations</b>	Manufacturing technologies; Crafts, creative arts and design; Design Associate Professionals; Textile and Garment Trades
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<b>Suite</b>	Manufacturing Sewn Products; Manufacturing Textile Products
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<b>Key words</b>	Printing; fabric; textiles; garments; textiles; screen; rotary
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