

# National Occupational Standards

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## Manufacturing Sewn Products National Occupational Standards

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## Introduction

The fashion and textiles industry continues to undergo a process of radical change driven by globalisation of production, rapidly changing consumer tastes and increased focus on high value products. Many fashion and textiles companies producing in the UK are manufacturing high quality goods for niche markets and need multi-skilled staff that are able to produce these goods, meeting quality standards and quantity demand.

These standards reflect this need and are designed to enhance and develop the skills and knowledge of those who produce sewn products and also those involved in dyeing and printing operations. The standards are most applicable to the following job roles:

- Sewing machinists
- Cloth cutters
- Tape sealers
- Pressers
- Aspiring tailors and dress-makers
- Dyeing and printing operatives

## Manufacturing Sewn Products Standards format

The Standards for Manufacturing Sewn Products are formatted to make it easy for readers to identify what knowledge they need to have and what they need to be able to do carry out such work. Each Standard contains the following information:

- Title - The manufacturing sewn products function (types of activity) to which the Standard applies.
- Overview - A broad description of the function to which the Standard refers. It places the function and the Standard in context for the reader, and helps the reader see who the Standard might apply to.
- Performance Criteria - Performance Criteria detail what individuals must be able to do in order to be competent in a Standard. Each performance criteria specifies the quality of a performance outcome that enables performance to be judged. The function to which a Standard applies is not the same as a job. It usually takes a number of Standards to cover the demands of a job.
- Knowledge and Understanding - This section details the knowledge that is needed in order to fulfill the requirements of the Standard. Some knowledge is very specific to the Standard, whilst other knowledge may be broader and may apply to more than one Standard. The section is entitled 'knowledge and understanding' to highlight the need for individuals to understand concepts and ideas, specific facts and ways of working (*know what* and *know how*) in order to complete aspects of their work successfully.

## Organisation of the Manufacturing Sewn Products Standards

The Standards focus on three facets of sewn products manufacturing on which its success depends:

1. Preparation of materials and workstation
2. Using sewing techniques to produce items
3. Dyeing and printing of fabric/items

## **Complementary Standards**

Generic standards developed by other Standards Setting Bodies which can be read in conjunction with the Manufacturing Sewn Products suite as required.

## **Uses of Standards**

Standards are nothing unless they are put into practice. They offer a framework for good employment practice from induction to job descriptions to managing your own learning and development. The rounded picture of work that the Standards give may help to produce entrants who are attuned to the way the sector operates and the demands they will have to meet, or improve the skill level of existing employees.

Standards are a tool to boost the more effective processes of learning and working that the sector has developed and to steer less effective processes in a positive direction.

## Apparel Functional Map

**To market, develop, manufacture and supply apparel plus allied and ancillary products from a range of materials to meet customer demands**

### Design & Development

Conduct market research

Create story boards/design briefs

Design by hand/CAD

Create and test samples/prototypes

Create final patterns via hand or CAD to produce agreed products

Deliver design services

### Create and apply colour to fibres and finished fabrics

Apply colour to flat fabric

Apply colour to sewn products

### Manufacture and finish mass produced apparel products and items

Create patterns by hand or CAD

Produce lay plans and cut material

Join materials to create apparel and ancillary products

Press and finish items

Maintain flow of production and ensure quality assurance

Ensure garment meets customer specifications

### Manufacture and finish bespoke apparel products and items

Prepare patterns and materials to create bespoke apparel/items

Produce lay plans and cut material

Join materials to create bespoke apparel and ancillary products

Use alternative methods to create bespoke garments/items

Press and finish items

Maintain flow of production and ensure quality assurance

Ensure garment meets customer specifications

## SKSHS1 – Health, safety and security at work

### Overview:

This standard is for all those personnel who take responsibility for their own health, safety and security in the workplace and is about using the correct procedures to prevent, control and minimise risk to yourself and others in the workplace. You will be required to take appropriate action in the event of an accident or incident within your own area of responsibility.

You will be responsible for the health, safety and security of yourself and others in the workplace, taking action in the event of any potential hazards and security breaches to make the workplace safe.

The job role may involve:

1. Contributing to the safety and security in the workplace
2. Taking action in the event of an incident
3. Raising the alarm
4. Following correct procedures for shut down and evacuation
5. Using emergency equipment correctly and safely
6. Monitor the workplace for hazards

### Performance Criteria:

- P1 Identify the location and type of accident / incident
- P2 Recognise the sound/s of alarms
- P3 Raise the alarm(s)
- P4 Take action in the event of fire, emergencies or accidents
- P5 Recognise and rectify where possible potential hazards in the workplace
- P6 Follow the organisational procedures for shut down and evacuation when required
- P7 Use, maintain and replace emergency equipment and protective clothing and equipment
- P8 Monitor the workplace for hazards
- P9 Report hazards which cannot be rectified immediately
- P10 Use correct handling and lifting techniques
- P11 Report any security breaches
- P12 Follow organisational procedure for any loss of property
- P13 Safely handle and move waste and debris
- P14 Store materials and equipment in line with manufacturer's and organisational requirements
- P15 Identify and correct (if possible) malfunctions in machinery and equipment
- P16 Recognise and report any service malfunctions that cannot be rectified
- P17 Recognise and report any hazardous substance leaks (contamination, spillages or emissions)
- P18 Complete all forms, records, reports and other documentation
- P19 Work to legal requirements, standards and regulations, policies, procedures and professional codes

### Knowledge and Understanding:

- K1 Where alarms, emergency exits, escape routes, emergency equipment and assembly points are located
- K2 What the alarm sounds like
- K3 What hazardous substances are used in the workplace
- K4 Methods of making safe or reducing the danger of hazardous substances in the event of an accident
- K5 How to handle and store hazardous substances in line with COSHH (Control of

Substances Hazardous to Health)

- K6 What the most likely accidents and emergencies in the workplace are and how to respond to them
- K7 Who the nominated first aiders are
- K8 How to respond to loss of property
- K9 Your responsibility to health, safety and security in the workplace
- K10 Environmental requirements

## SKSMSP1 – Look after the work area in manufacturing sewn products

### Overview:

This standard is for those who organise and maintain their work areas and activities to make sure that agreed production targets and instructions are met.

The job role may involve:

1. Organising, cleaning and maintaining the work area
2. Organising the work to ensure it flows effectively through the work area
3. Carrying out on-going routine maintenance of tools and equipment
4. Helping to achieve production targets

### Performance Criteria:

- P1 Handle materials, machinery, equipment and tools safely and correctly
- P2 Use correct lifting and handling procedures
- P3 Use materials to minimise waste
- P4 Prepare and organise work
- P5 Maintain a clean and hazard free working area
- P6 Deal with work interruptions
- P7 Move about the workplace with care
- P8 Maintain tools and equipment
- P9 Carry out running maintenance within agreed schedules
- P10 Report the need for maintenance and / or cleaning outside your responsibility
- P11 Report unsafe equipment and other dangerous occurrences
- P12 Ensure the correct machine guards are in place
- P13 Work in a comfortable position with the correct posture
- P14 Use cleaning equipment and methods appropriate for the work to be carried out
- P15 Dispose of waste safely in the designated location
- P16 Store cleaning equipment safely after use
- P17 Carry out cleaning according to schedules and limits of responsibility
- P18 Complete and store accurate records and documentation

### Knowledge and Understanding:

- K1 How to receive work instructions and specifications and interpret them accurately
- K2 How to make use of the information detailed in specifications and instructions
- K3 How the work role fits in with the overall manufacturing process
- K4 The importance of good time keeping and attendance
- K5 The importance of minimised production costs
- K6 The importance of taking action when problems are identified
- K7 Different ways of minimising waste
- K8 The importance of running maintenance and regular cleaning
- K9 Effects of contamination on products i.e. machine oil, dirt
- K10 Common faults with equipment and how they can be rectified
- K11 Maintenance procedures
- K12 Hazards likely to be encountered when conducting routine maintenance
- K13 Different types of cleaning equipment and substances and their use
- K14 Safe working practices for cleaning and how they are carried out
- K15 Personal hygiene and duty of care
- K16 Safe working practices and organisational procedures
- K17 Limits of your own responsibility
- K18 Ways of resolving with problems within the work area
- K19 The production process and how your specific work activities relate to the whole process
- K20 The importance of effective communication with colleagues
- K21 The lines of communication, authority and reporting procedures



- K22 The organisation's rules, codes and guidelines (including timekeeping)
- K23 The companies quality standards
- K24 The types of records kept, how are they completed and the importance of keeping them accurate
- K25 The importance of complying with written instructions
- K26 Equipment operating procedures / manufacturer's instructions
- K27 Statutory responsibilities under Health, Safety and Environmental legislation and regulations

## SKSMSP2 – Contribute to achieving product quality

### Overview:

This standard is for those who monitor the quality of their own production activities and ensure products continue to meet specifications during production.

The job role may involve:

1. Inspecting materials and products during the production process
2. Meeting product specifications
3. Identifying problems and irregularities
4. Finding the cause of faults in materials and products
5. Taking appropriate corrective action
6. Using quality approved systems and reporting procedures

### Performance Criteria:

- P1 Ensure materials and component parts meet specification
- P2 Report faulty materials and component parts which do not meet specification
- P3 Replace identified faulty materials and component parts which do not meet specification
- P4 Set up and test equipment to meet quality standard
- P5 Carry out quality checks at agreed intervals and in the approved way
- P6 Ensure the quality of the product meets specification during production
- P7 Apply the allowed tolerances
- P8 Identify process problems that effect product quality and report them promptly to appropriate people
- P9 Maintain the continuity of production with minimum interruptions and downtime
- P10 Identify faults and irregularities in equipment and machinery and take action within the limits of your responsibility
- P11 Identify faults in finished products and trace their causes
- P12 Follow reporting procedures where the cause of faults cannot be identified
- P13 Maintain the required productivity and quality levels
- P14 Complete and store accurate records and documentation

### Knowledge and Understanding:

- K1 How to receive work instructions and specifications and interpret them accurately
- K2 How to make use of the information detailed in specifications and instructions
- K3 The types of faults in equipment and machinery and the action to be taken when they occur
- K4 The types of faults in materials and components which need replacing and the action to be taken
- K5 How to identify materials which do not conform to requirements and how to report them to appropriate people
- K6 Care and fabric content labels / symbols
- K7 The types of problems that occur during processing
- K8 Potential solutions to help rectify faults
- K9 Inspection methods and techniques
- K10 The types of adjustments suitable for specific types of faults
- K11 Handling techniques for different materials
- K12 Awareness of material / fabric / yarn types
- K13 Quality control procedures and how to follow them
- K14 The types of problems with quality and how to report them to appropriate people
- K15 The consequences of not rectifying problems
- K16 The importance of keeping accurate quality records
- K17 How to present any ideas for improvement to line manager
- K18 The causes of lost production and material wastage

- K19 How to maintain the flow of production
- K20 The importance of achieving quality and its relation to the end user / customer
- K21 The importance of team work
- K22 Safe working practices and organisational procedures
- K23 Limits of your own responsibility
- K24 Ways of resolving with problems within the work area
- K25 The production process and how your specific work activities relate to the whole process
- K26 The importance of effective communication with colleagues
- K27 The lines of communication, authority and reporting procedures
- K28 The organisation's rules, codes and guidelines (including timekeeping)
- K29 The companies quality standards
- K30 The types of records kept, how are they completed and the importance of keeping them accurate
- K31 The importance of complying with written instructions
- K32 Equipment operating procedures / manufacturer's instructions
- K33 Statutory responsibilities under Health, Safety and Environmental legislation and regulations

## SKSMSP3 – Cutting materials for manufacturing sewn products

### Overview:

This standard is for those who are involved in cutting materials to form product components using manual, automatic or computer controlled cutting or laying up machines.

The job role may involve:

1. Preparing cutting equipment and work area
2. Obtaining and preparing materials for marking out
3. Planning and marking out materials for cutting
4. Cutting materials to form components
5. Recognising and correcting faults that may occur
6. Meeting production targets

### Performance Criteria:

- P1 Interpret instructions accurately and organise work to be carried out accordingly
- P2 Identify difficulties in carrying out instructions and report them promptly
- P3 Set up and use equipment for work
- P4 Identify faulty equipment and take action within the limits of your responsibility
- P5 Make sure that your work area, equipment and tools are free from lubricants and debris
- P6 Make sure that materials, templates and lays are confirmed to the specification and are free from defects and faults
- P7 Identify materials, templates and lays not to specification and take relevant action
- P8 Handle material correctly when preparing for cutting to ensure no damage
- P9 Match part rolls for colour and integrate into the complete job
- P10 Identify materials that need to be cut one way
- P11 Position material and roll out square, true and flat on the cutting area
- P12 Identify material faults exceeding specification limits and take relevant action
- P13 Identify acceptable material faults and mark for future identification
- P14 Store unused part rolls in the designated location
- P15 Plan the position of pattern pieces and sequence of marking out to minimise waste and take into account material width, minor defects and major flaws
- P16 Correctly align marked components according to product requirements
- P17 Mark out quantity of material within acceptable limits and to specification using the correct marker
- P18 Check that marked components are free from major flaws
- P19 Identify problems with planning and marking out material and take relevant action
- P20 Cleanly cut components to marked size and shape within given tolerances
- P21 Identify problems in cutting components and take relevant action
- P22 Use and maintain the cutting equipment and tools safely and correctly
- P23 Accurately mark components and pass to the next process according to instructions
- P24 Complete and store accurate records and documentation
- P25 Materials remaining from the cutting process which can be re-used are placed in the designated location
- P26 Dispose of waste safely in the designated location

### Knowledge and Understanding:

- K1 How to receive work instructions and specifications and interpret them accurately
- K2 How to make use of the information detailed in specifications and instructions
- K3 Hazards likely to be encountered and how they can be avoided
- K4 Operating principles of tools and equipment used
- K5 The importance of using protective equipment
- K6 Types of equipment and tool faults, how they are identified and how they should be

- dealt with
- K7 Consequences of lubricants and debris being left on equipment, tools and work surfaces
- K8 Types of material faults which occur, how they are identified and how they should be dealt with
- K9 Ways in which damaged templates and lays can be rectified
- K10 Storage requirements for different types of materials
- K11 The reasons for keeping waste to a minimum
- K12 Type of markers used and consequences of not selecting the correct marker
- K13 The need to maintain cut components within the given tolerances
- K14 The importance of marking components correctly
- K15 Problems which may occur in cutting materials and how to rectify them
- K16 The characteristics of different types of materials and how they are affected by cutting
- K17 Safe working practices and organisational procedures
- K18 Personal hygiene and duty of care
- K19 Limits of your own responsibility
- K20 Ways of resolving with problems within the work area
- K21 The production process and how your specific work activities relate to the whole process
- K22 The importance of effective communication with colleagues
- K23 The lines of communication, authority and reporting procedures
- K24 The organisation's rules, codes and guidelines (including timekeeping)
- K25 The companies quality standards
- K26 The types of records kept, how are they completed and the importance of keeping them accurate
- K27 The importance of complying with written instructions
- K28 Equipment operating procedures / manufacturer's instructions
- K29 Statutory responsibilities under Health, Safety and Environmental legislation and regulations

## SKSMSP4 – Carry out the sewing process

### Overview:

This standard is for those who prepare and sew materials for clothing or related products.

The job role may involve:

1. Preparing the machine and work area
2. Identifying and sorting components
3. Organising the work to ensure it flows effectively through the work area
4. Sewing materials to specification
5. Meeting production targets
6. Completing documentation

### Performance Criteria:

- P1 Organise work in accordance with instructions
- P2 Identify and report difficulties in carrying out instructions
- P3 Prepare equipment for use according to instructions
- P4 Carry out emergency stop procedures on machinery
- P5 Identify, rectify and report machine faults and take the relevant action within the limits of responsibility
- P6 Keep the work area clean and tidy
- P7 Identify components that meet specification and are free from defects and faults
- P8 Identify, rectify and report deviations from specification
- P9 Ensure the quantity of cut items to meet specifications
- P10 Organise and prepare components for sewing
- P11 Carry out test sews
- P12 Sew cut items to specifications and in the correct sequence
- P13 Ensure sewn product conforms to shape and size requirements
- P14 Ensure sewn product meets specification in terms of labels and trimmings
- P15 Operate machine safely and correctly according to instructions
- P16 Inspect sewn products against specification
- P17 Identify, mark and place rejects in the designated location
- P18 Use tools and equipment correctly, efficiently and safely
- P19 Prepare sewn work for transfer on to the next stage of the process
- P20 Complete and store accurate records and documentation

### Knowledge and Understanding:

- K1 How to receive and read work instructions and specifications and interpret them accurately
- K2 How to make use of the information detailed in specifications and instructions
- K3 The importance of reporting and resolving any problems with instructions
- K4 Equipment faults which may occur, how they are identified and how they should be dealt with
- K5 When to carry out test sews and the reasons for them
- K6 Characteristics of different materials
- K7 The importance of having a clean, clear work area
- K8 Continuous work preparation i.e. spool / bobbin fill whilst sewing, all components to hand
- K9 How to organise work to help meet required quality and quantity levels
- K10 Production targets and methods including piece rate and competitive rate systems
- K11 The importance of machine, needle, foot, needle guard and spool checks
- K12 Consequences of lubricants or debris being left on or around the machine and work surface
- K13 Hazards likely to be encountered in the workplace and how they can be avoided

- K14 Consequences of sewing components out of sequence and how to prevent it occurring
- K15 Types of seams / hems / finish used and purposes they serve
- K16 Effect of seams / hems not sewn to specification
- K17 Types of faults which may occur, how they are identified and how they should be dealt with
- K18 Why sewn items should be kept free of contamination
- K19 Storage requirements of different types of sewn items
- K20 The importance of marking and segregating rejects
- K21 The organisation's rules, codes, guidelines and standards
- K22 Quality and quantity including compliance with specifications and timescales
- K23 Quality systems and procedures
- K24 Personal hygiene and duty of care
- K25 Safe working practices and organisational procedures
- K26 Limits of your own responsibility
- K27 Ways of resolving with problems within the work area
- K28 The production process and how your specific work activities relate to the whole process
- K29 The importance of effective communication with colleagues
- K30 The lines of communication, authority and reporting procedures
- K31 The organisation's rules, codes and guidelines (including timekeeping)
- K32 The companies quality standards
- K33 The types of records kept, how are they completed and the importance of keeping them accurate
- K34 The importance of complying with written instructions
- K35 Equipment operating procedures / manufacturer's instructions
- K36 Statutory responsibilities under Health, Safety and Environmental legislation and regulations

## SKSMSP5 – Carry out the tape sealing process in the production of clothing and related items

### Overview:

This standard is for those who prepare and operate machinery and equipment to tape seal clothing or related products.

The job role may involve:

1. Preparing tape sealing equipment and work area
2. Obtaining and preparing items for sealing
3. Sealing materials to specification
4. Forwarding sealed items to the next process and recording details

### Performance Criteria:

- P1 Organise work in accordance with instructions
- P2 Identify and report difficulties in carrying out instructions
- P3 Prepare sealing equipment for use
- P4 Identify faulty equipment and take appropriate action
- P5 Keep the work area and equipment free from lubricants and debris
- P6 Obtain the correct quantity of items to meet specifications
- P7 Identify items not to specification and take relevant action
- P8 Prepare items for the sealing process
- P9 Seal products, following seams and sealing to specifications
- P10 Operate the machine safely and correctly according to instructions
- P11 Monitor and adjust machine performance during sealing process to maintain production
- P12 Use the correct roller pressure, temperature; speed and air flow for the product
- P13 Identify problems when sealing materials and take relevant action
- P14 Ensure that the quality and quantity of manufactured output complies with specifications and production targets
- P15 Inspect products against specifications
- P16 Transfer sealed materials to the next stage of the production process
- P17 Identify sealed rejects, mark and place in designated location
- P18 Complete and store accurate records and documentation

### Knowledge and Understanding:

- K1 How to receive work instructions and specifications and interpret them accurately
- K2 How to make use of the information detailed in specifications and instructions
- K3 Faults which may occur with sealing equipment and how they are rectified
- K4 Hazards likely to be encountered in the workplace and how they can be avoided
- K5 The importance of keeping the work area clean
- K6 The importance of tape and fabric compatibility
- K7 The types of product faults likely to occur and how they can be rectified
- K8 The importance of accurate fabric identification
- K9 The product specification
- K10 Types and characteristics of sealants and materials used
- K11 Stitch faults and the effect on sealing
- K12 Operating principles of sealing machines
- K13 The adhering properties of two layer membrane / adhesive and three layer knit / membrane / adhesive tapes, and their effect on temperature control
- K14 Why sealed items should be kept free of contamination
- K15 The storage requirements of different types of sealed products
- K16 The importance of marking and segregating rejects
- K17 Quality and quantity compliance with specifications and production targets



- K18 Personal hygiene and duty of care
- K19 Safe working practices and organisational procedures
- K20 Limits of your own responsibility
- K21 Ways of resolving with problems within the work area
- K22 The production process and how your specific work activities relate to the whole process
- K23 The importance of effective communication with colleagues
- K24 The lines of communication, authority and reporting procedures
- K25 The organisation's rules, codes and guidelines (including timekeeping)
- K26 The companies quality standards
- K27 The types of records kept, how are they completed and the importance of keeping them accurate
- K28 The importance of complying with written instructions
- K29 Equipment operating procedures / manufacturer's instructions
- K30 Statutory responsibilities under Health, Safety and Environmental legislation and regulations

## SKSMSP6 – Carry out hand pressing in the sewing process

### Overview:

This standard is for those who hand press items using dry iron, steam iron or vacuum buck methods and ensure product quality by remedial work and adjustments.

The job role may involve:

1. Selecting and preparing hand pressing equipment and work area
2. Selecting and preparing items for pressing
3. Remedial work on finished items
4. Pressing garments to specification
5. Monitoring the pressing process

### Performance Criteria:

- P1 Organise work to be carried out in accordance with instructions
- P2 Identify difficulties in carrying out instructions and report them promptly
- P3 Select appropriate equipment for the work
- P4 Set equipment to appropriate operating temperatures, times and pressures
- P5 Carry out test pressing to confirm that shine, stretch, shrinkage and fabric reaction is within agreed tolerances
- P6 Adjust equipment settings to achieve product specification if required
- P7 Ensure that equipment and operating surfaces are clean and free of contamination
- P8 Select and prepare items to be pressed and confirm specification
- P9 Identify material defects and report promptly
- P10 Prioritise work to meet production schedule
- P11 Press items using method, sequence and time to achieve product specification
- P12 Manipulate items to help achieve product specification if required
- P13 Operate pressing equipment safely and correctly according to material type
- P14 Identify and rectify recoverable faults within the capabilities of the equipment
- P15 Ensure that the completed product conforms to size and visual requirements
- P16 Ensure that the quality and quantity of pressed items complies with specifications and production targets
- P17 Identify rejects, mark and place in the designated locations
- P18 Complete and store accurate records and documentation
- P19 Protect pressed items and transfer to the next stage of the production process

### Knowledge and Understanding:

- K1 How to receive work instructions and specifications and interpret them accurately
- K2 How to make use of the information detailed in specifications and instructions
- K3 Awareness of standard size and care labels
- K4 Different types of equipment to achieve specified results and how they are used
- K5 Equipment faults which may occur, how they are identified and dealt with
- K6 Product faults which may occur, how they are identified and appropriate course of action to be taken
- K7 Characteristics of differing materials and when to carry out temperature, pressure and steam test
- K8 Equipment adjustment and maintenance to achieve required results
- K9 Importance of checking products against specification
- K10 How to rectify minor faults in garments by the application of heat, steam, vacuum and pressure
- K11 How to manually manipulate product materials to achieve specified requirements
- K12 The construction of garments / items
- K13 The importance of operating equipment within health and safety requirements
- K14 Specification and samples
- K15 How to adjust and modify equipment to achieve specification of product

- K16 The ways in which pressed items should be protected
- K17 Why pressed items should be protected
- K18 Importance of forwarding products promptly
- K19 The importance of marking and segregating rejects
- K20 Personal hygiene and duty of care
- K21 Safe working practices and organisational procedures
- K22 Limits of your own responsibility
- K23 Ways of resolving with problems within the work area
- K24 The production process and how your specific work activities relate to the whole process
- K25 The importance of effective communication with colleagues
- K26 The lines of communication, authority and reporting procedures
- K27 The organisation's rules, codes and guidelines (including timekeeping)
- K28 The companies quality standards
- K29 The types of records kept, how are they completed and the importance of keeping them accurate
- K30 The importance of complying with written instructions
- K31 Equipment operating procedures / manufacturer's instructions
- K32 Statutory responsibilities under Health, Safety and Environmental legislation and regulations

## SKSMSP7 – Dyeing fabric and sewn products

### Overview:

This standard is for those who dye fabrics and sewn products to meet given specifications using the appropriate machinery or equipment.

The job role may involve:

1. Preparing the work area and equipment
2. Establishing requirements and specification
3. Setting up, starting and completing the dyeing process
4. Monitoring and controlling the quality of the dyeing process
5. Using quality approval processes

### Performance Criteria:

- P1 Identify the correct batches of products from jobsheets / ID
- P2 Establish and confirm specifications required
- P3 Identify the materials / chemicals to be used in the process
- P4 Ensure sufficient quantities of dyes and auxiliaries from the colour mixer / weigher at the correct time
- P5 Ensure sufficient support services are available to commence processing
- P6 Ensure relevant risk control measures are in place
- P7 Identify and report any faults with the raw materials
- 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
- P10 Use appropriate materials in the correct order
- P11 Load items correctly dependant on the machine and product type
- P12 Place dyes and auxiliaries in the proper section of the machine in the correct order
- P13 Select the appropriate machine program and adjust machine settings and parameters as required for dyeing
- P14 Carry out start-up checks
- P15 Detect and report equipment faults or defects within own limits of responsibility
- P16 Start, carry out and monitor the dying process, meeting the given specifications
- P17 Inspect dyed products and report or rectify faults within limits of own responsibility
- P18 Colour match dyed items to customer specification
- P19 Identify, mark and segregate faulty products as required
- P20 Forward the completed batch to the next stage of the production process or to a suitable containment or storage area
- P21 Work within timescales
- P22 Complete relevant documentation
- P23 Comply with company procedures and systems of work
- P24 Clean machinery in preparation for the next batch
- P25 Dispose of waste following company procedures

### Knowledge and Understanding:

- 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 The implications of order size and product type on the dyeing process
- K5 Technical considerations with different fibre and fabric type
- K6 Levels of product stability throughout the dyeing process
- K7 Evaluation techniques of inherent fabric flaws
- K8 Machine programs, settings and adjustments i.e. liquor, ph levels and ratios, temperatures, pressures and timings
- K9 Awareness of machine loading procedures

- K10 The dyeing process, (fabric preparation, dyeing and finishing)
- K11 Chemical handling procedures
- K12 Materials / chemicals used in different processes
- K13 Faults with raw materials or equipment and how to deal with them appropriately
- K14 The importance of sufficient raw materials and support services
- K15 How to assess customer needs and meet customer specifications
- K16 Why processed and part-processed materials, excess materials and recoverable by-products should be separated out during production
- K17 The importance of monitoring the process and ensuring quality requirements are met
- K18 General plant awareness
- K19 The significance of the boiler for steam, use of the compressor and water softener
- K20 Waste disposal, company waste procedures and systems
- K21 The organisation's rules, codes, guidelines and standards
- K22 Production targets
- K23 Quality systems and procedures
- K24 Quality control in relation to shade, handling and continuity
- K25 Limits of personal responsibility
- K26 How to communicate effectively with colleagues and customers
- K27 The importance of keeping accurate records
- K28 The importance of complying with written instructions
- K29 Equipment operating and cleaning procedures and machine manufacturer's instructions
- K30 Statutory responsibilities under Health, Safety and Environmental legislation and regulations

## SKSMSP9 – Printing fabric

### 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

### Performance Criteria:

- 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

### Knowledge and Understanding:

- 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 legislation and regulations