

**Learner Unit Achievement Checklist**

**ABC Level 2 Certificate in Manufacturing Sewn Products (NVQ)**

**50059622**

###### Level 2 Certificate in Manufacturing Sewn Products (NVQ)

## Centre Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Learner Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Notes to learners – this checklist is to be completed, to show that you have met all the mandatory and required optional units for the qualification.

**K/502/1072 Health safety and security at work - Mandatory Unit**

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| Assessment Criteria | Evidence (Brief description/title) | Portfolio Reference | Date Completed | Comment |
| **1.1** Take appropriate action in the event of fire, emergencies or accidents  **1.2** Identify where alarms, emergency exits, escape routes, emergency equipment and assembly points are located  **1.3** Demonstrate safe and appropriate use of emergency equipment  **1.4** Distinguish between different alarm sounds  **1.5** Comply with equipment operating procedures and manufacturers instructions  **1.6** Demonstrate safe handling and lifting techniques  **1.7** Demonstrate correct use and maintenance of any protective clothing and/or equipment  **1.8** Comply with personal responsibilities under the Health and Safety at Work Act / COSHH  **1.9** Identify who the nominated first aiders are |  |  |  |  |
| **2.1** Identify hazardous substances that are used in the workplace and demonstrate methods of making them safe or reducing their danger in the event of an accident  **2.2** Identify hazards posed by machinery that is used in the workplace and demonstrate methods of making safe or reducing their danger in the event of an accident  **2.3** Demonstrate how to handle and store hazardous substances including debris  **2.4** Demonstrate how to store materials and equipment  **2.5** Explain what the most likely accidents and emergencies in the workplace are and how to deal with them  **2.6** Comply with personal responsibilities under the COSHH (Control of Substances Hazardous to Health) |  |  |  |  |
| **3.1** Outline and comply with the organisation’s rules, codes, guidelines and standards relating to security  **3.2** Explain how to deal with loss of property |  |  |  |  |

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**M/502/1073 Maintaining the work area for manufacturing sewn products (MSP1) - Mandatory Unit**

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| Assessment Criteria | Evidence (Brief description/title) | Portfolio Reference | Date Completed | Comment |
| **1.1** Handle tools and equipment safely and correctly  **1.2** Use equipment in accordance with operating procedures and manufacturers’ instructions  **1.3** Locate sources of information regarding maintenance procedures  **1.4** Explain why it is important to conduct running maintenance  **1.5** Identify common faults with equipment and how they can be rectified  **1.6** Carry out running maintenance within agreed schedules  **1.7** Identify hazards likely to be encountered when conducting running maintenance  **1.8** Identify parameters of own responsibility, colleagues responsibility and those of line manager  **1.9** Report unsafe equipment and other dangerous occurrences  **1.10** Refer and report the need for maintenance outside your responsibility  **1.11** Make appropriate referral and take appropriate action when problems are identified |  |  |  |  |
| **2.1** Maintain a clean and hazard free working area  **2.2** Keep the work area free from waste, lubricants and obstructions  **2.3** Identify and employ different ways of minimising waste  **2.4** Dispose of waste safely in a designated location  **2.5** Carry out cleaning safely according to schedules and limits of responsibility  **2.6** Use cleaning equipment and methods appropriate for the work to be carried out in a safe manner  **2.7** Identify different types of cleaning equipment and their use  **2.8** Store cleaning equipment safely after use |  |  |  |  |
| **3.1** Work in a comfortable position with good posture  **3.2** Use and maintain personal protective clothing and/or equipment  **3.3** Comply with statutory and organisational rules, codes, good practice guidelines and standards relating to health, safety, security and sustainability.  **3.4** Use correct lifting and handling procedures |  |  |  |  |

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**T/502/1074 Maintain the quality of production working with textiles leather and materials (MSP2)**

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| Assessment Criteria | Evidence (Brief description/title) | Portfolio Reference | Date Completed | Comment |
| **1.1** Identify different techniques and methods used to detect faults  **1.2** Identify the inspection method/s appropriate to the work  **1.3** Use organisational recording and reporting systems  **1.4** Carry out quality checks at specified intervals according to instructions  **1.5** Record information accurately and completely  **1.6** Identify faults in materials and products and take appropriate action  **1.7** Identify and report potential solutions to rectify faults  **1.8** Follow reporting procedures where the cause of faults cannot be identified  **1.9** Report faults outside personal responsibility to the appropriate person |  |  |  |  |
| **2.1** Identify different types of faults likely to be encountered and the ways of rectifying them  **2.2** Differentiate between correctable and non-correctable faults  **2.3** Explain how to compare types of faults with possible causes and solutions (equipment, materials, process)  **2.4** Describe acceptable solutions for particular faults  **2.5** Explain the types of adjustments that are suitable for specific types of faults  **2.6** Make adjustments promptly to return product to specification  **2.7** Monitor rectified faults to ensure the problems have been solved |  |  |  |  |
| **3.1** Explain why product checks are important  **3.2** Identify potential consequences of not rectifying problems  **3.3** Explain the importance of recording details of non established adjustments  **3.4** Explain the consequences of not monitoring adjustments made |  |  |  |  |
| **4.1** Describe own responsibilities at work during production  **4.2** Prioritise the fault rectification process to maintain production requirements  **4.3** Identify quality and production targets and the effect of not meeting these on self and/or your team |  |  |  |  |

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**R/502/1079 Cutting materials for manufacturing sewn products**

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| Assessment Criteria | Evidence (Brief description/title) | Portfolio Reference | Date Completed | Comment |
| **1.1** Make sure that own work area, equipment and tools are free from lubricants and debris  **1.2** Check and confirm materials, components and lay plans meet the specification/order.  **1.3** Identify materials, components and lay plans that do not meet specification and record and refer in accordance with organisation’s rules, codes, guidelines and standards.  **1.4** Organise work to be carried out according to instructions  **1.5** Identify the characteristics of different types of materials and the implications of this for cutting  **1.6** ‘Mark in’ ensuring the correct positioning and placing of patterns for economic use of material  **1.7** ‘Lay up’ material length required, ensuring material is positioned true and flat on the cutting table within acceptable tolerances and to the quantity of specification using the correct marker  **1.8** Identify problems that can affect the lay plan or the ‘marking in’ of material, reposition and remark the patterns if required, to achieve economic use of material  **1.9** Identify acceptable material faults and mark for future identification  **1.10** Identify parts rolls that colour match and integrate into the complete job if appropriate  **1.11** Store unused part rolls in the designated location  **1.12** Check and confirm that marked components are free from major flaws |  |  |  |  |

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| **2.1** Perform machine checks, Identifying faulty equipment and take action within limits of own responsibility  **2.2** Perform emergency stop test procedures on machinery  **2.3** Prepare to cut components in accordance with health and safety regulations ie. mesh gloves  **2.4** Use cutting equipment safely deploying safety guards  **2.5** Accurately cut components to marked size and shape within given tolerances  **2.6** Identify problems in cutting components and take action in accordance with organisation’s rules, codes, guidelines and standards  **2.7** Inspect cut components against specifications/tolerances  **2.8** Accurately mark components and pass to the next process according to instructions  **2.9** Identify materials remaining from the cutting process which can be re used are placed in the designated location  **2.10** Dispose of waste safely in the designated location in accordance with organisation’s rules, codes, guidelines and standards |  |  |  |  |
| **3.1** Explain why performing quality checks in the cutting room can contribute to production targets  **3.2** Describe the effect of components not cut to specification  **3.3** Identify types of faults which may occur, how they are identified and how they should be dealt with  **3.4** Explain why cut items should be kept free of contamination  **3.5** Explain why it is important to segregate and mark rejects  **3.6** Explain the consequences of cutting components out of sequence and how to prevent it occurring  **3.7** Identify two potential consequences of not rectifying problems  **3.8** Explain why it is important to record details of adjustments and the potential consequences of not recording them |  |  |  |  |

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Notes to learners – this checklist is to be completed, to show that you have met all the mandatory and required optional units for the qualification.

**J/502/1080 Carry out the sewing process**

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| Assessment Criteria | Evidence (Brief description/title) | Portfolio Reference | Date Completed | Comment |
| **1.1** Ensure the work area is clean, clear and tidy from lubricants and debris  **1.2** Perform machine, needle, foot and spool checks  **1.3** Perform emergency stop test procedures on machinery  **1.4** Identify the characteristics of different types of materials and the implications of this for sewing  **1.5** Explain when to carry out test sews and the reasons for them  **1.6** Prepare equipment for use according to instructions, characteristics of material and in accordance with organisation’s rules, codes, guidelines and standards.  **1.7** Organise work in accordance with order of assembly requirements  **1.8** Confirm components are to specification and are free from defects and faults  **1.9** Identify and report difficulties in meeting the specification  **1.10** Identify, report and refer deviations from specification in accordance with organisation’s rules, codes, guidelines and standards |  |  |  |  |
| **2.1** Identify types of seams to be used and the purposes they serve  **2.2** Accurately sew components in sequence to marked size and shape within given tolerances outlined in the order of assembly  **2.3** Monitor sewn products against shape and size requirements and report deviations in accordance with organisation’s rules, codes, guidelines and standards  **2.4** Inspect sewn components against specifications/tolerances  **2.5** Register, bundle and arrange sewn work for passing on to the next stage of the production process  **2.6** Identify, mark and place rejects in the designated location  **2.7** What are the storage requirements of different types of sewn items |  |  |  |  |
| **3.1** Explain why performing quality checks in the sewing room can contribute to production targets  **3.2** Inspect products against specifications  **3.3** Describe the effect of seams not sewn to specification  **3.4** Identify types of stitch faults which may occur and how they should be dealt with  **3.5** Explain why sewn items should be kept free of contamination  **3.6** Explain why it is important to segregate and mark rejects  **3.7** Explain the consequences of sewing components out of sequence and how to prevent it occurring  **3.8** Identify two potential consequences of not rectifying problems  **3.9** Explain why it is important to record details of adjustments and the potential consequences of not recording them  **3.10** Identify two equipment faults that may occur, explain how they are identified and how they should be dealt with |  |  |  |  |

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Notes to learners – this checklist is to be completed, to show that you have met all the mandatory and required optional units for the qualification.

**R/502/1082 Carry out the tape sealing process in the production of clothing and related items**

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| Assessment Criteria | Evidence (Brief description/title) | Portfolio Reference | Date Completed | Comment |
| **1.1** Ensure the work area is clean, clear and tidy from lubricants and debris  **1.2** Identify specific hazards likely to be encountered in the workplace when sealing is being undertaken and how they can be avoided  **1.3** Identify the characteristics of different materials and types of seals used and the implications of this on the sealing process  **1.4** Describe the adhering properties of two layer membrane/adhesive and three layer knit/membrane/adhesive tapes and their effect on temperature control  **1.5** Explain why it is important to ensure sufficient quantity of material and tape is available  **1.6** Explain when to carry out test seals and the reasons for them  **1.7** Describe the operating principles of sealing machines  **1.8** Prepare sealing equipment for use according to instructions, characteristics of material and in accordance with organisation’s rules, codes, guidelines and standards  **1.9** Identify faults which may occur with sealing equipment and how they are rectified  **1.10** Organise work in accordance with order of assembly requirements  **1.11** Confirm components are to specification and are free from defects and faults  **1.12** Identify and report difficulties in meeting the specification  **1.13** Identify report and refer deviations from specification in accordance with organisation’s rules, codes, guidelines and standards |  |  |  |  |
| **2.1** Check that roller pressure, temperature, speed and air flow are satisfactory  **2.2** Perform emergency stop test procedures on machinery  **2.3** Prepare to seal components in accordance with health and safety regulations  **2.4** Operate tape sealing machinery safely and in accordance with organisation’s rules, codes, guidelines and standards  **2.5** Monitor sealed products against shape and size requirements and report deviations in accordance with organisation’s rules, codes, guidelines and standards  **2.6** Monitor and adjust machine performance during sealing process to maintain quality standards and production targets  **2.7** Register, bundle and arrange sealed work for passing on to the next stage of the production process  **2.8** Identify, mark and place rejects in the designated location  **2.9** Describe the pre/storage requirements of different types of sealed items |  |  |  |  |
| **3.1** Explain why performing quality checks in the taping area can contribute to production targets  **3.2** Inspect products against specifications  **3.3** Identify types of stitch faults and the potential effects on sealing components  **3.4** Explain why sealed items should be kept free of contamination  **3.5** Explain why it is important to segregate and mark rejects  **3.6** Explain the importance of tape and fabric compatibility when sealing  **3.7** Explain the consequences of sealing components out of sequence and how to prevent it occurring  **3.8** Identify two potential consequences of not rectifying problems  **3.9** Explain why it is important to record details of adjustments and the potential consequences of not recording them  **3.10** Identify two equipment faults that may occur, explain how they are identified and how they should be dealt with |  |  |  |  |

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Notes to learners – this checklist is to be completed, to show that you have met all the mandatory and required optional units for the qualification.

**Y/502/1083 Carry out hand pressing in the sewing process**

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| Assessment Criteria | Evidence (Brief description/title) | Portfolio Reference | Date Completed | Comment |
| **1.1** Ensure that equipment and operating surfaces are clean and free of contamination  **1.2** Interpret instructions in order to inform, organise and prioritise work to be carried out and in order to meet production schedule  **1.3** Explain the importance of checking products against specification  **1.4** Identify difficulties in carrying out instructions and report them promptly  **1.5** Select appropriate pressing equipment for the garment to be pressed  **1.6** Identify the characteristics of differing materials and when to carry out temperature, pressure and steam test  **1.7** Select and use the appropriate type of equipment for the pressing process   * Dry iron * Steam iron * Vacuum buck   to achieve specified results  **1.8** Undertake equipment adjustment and maintenance to achieve required results  **1.9** Carry out test pressing to confirm that shine, stretch, shrinkage and fabric reaction is within agreed tolerances |  |  |  |  |
| **2.1** Press material using method, sequence and time to achieve product specification  **2.2** Achieve product specification by adjustment of equipment and manipulation of material  **2.3** Set equipment to appropriate operating temperatures, time and pressures to achieve requirements  **2.4** Operate pressing equipment safely and correctly according to material type  **2.5** Ensure that the quality and quantity of pressed items complies with specifications and production targets  **2.6** Register pressed items to aid future identification  **2.7** Explain and demonstrate how to protect pressed items and promptly forward to the next stage of the production process  **2.8** Ensure that the completed product conforms to size and visual requirements |  |  |  |  |
| **3.1** Explain why performing quality checks in the pressing area can contribute to production targets  **3.2** Inspect products against specifications  **3.3** Identify types of stitch faults and the potential effects on the pressing process  **3.4** Explain why pressed items should be kept free of contamination  **3.5** Explain why it is important to segregate and mark rejects  **3.6** Explain the consequences of pressing components out of sequence and how to prevent it occurring  **3.7** Identify two potential consequences of not rectifying problems  **3.8** Explain why it is important to record details of adjustments and the potential consequences of not recording them.  **3.9** Identify two equipment faults that may occur, explain how they are identified and how they should be dealt with |  |  |  |  |

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**J/502/4030 Dyeing Fabric**

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| Assessment Criteria | Evidence (Brief description/title) | Portfolio Reference | Date Completed | Comment |
| **1.1** Explain the dyeing process   * fabric preparation * dyeing * finishing   **1.2** Ensure that the work area is suitable and free from any hazards and obstructions  **1.3** Describe safe chemical handling procedures  **1.4** Identify specific hazards likely to be encountered in the dyeing process and how they can be avoided  **1.5** Identify the characteristics of different fabric types and the qualities of pre-dyed (greige) materials  **1.6** Identify different colours across the full spectrum  **1.7** Explain the differences between different types of equipment  **1.8** Identify materials/chemicals used in different processes and explain what happens to them as they are processed  **1.9** Identify why processed and part-processed materials, excess materials and recoverable by-products should be separated out during production  **1.10** Prepare equipment for use according to instructions, characteristics of material and in accordance with organisation’s rules, codes, guidelines and standards  **1.11** Organise work in accordance with instructions  **1.12** Confirm sufficient raw material and support services are available to commence processing  **1.13** Confirm suitable containment and storage facilities are available for processed, part-processed materials, excess materials and recoverable by-products  **1.14** Confirm components are in line with the specification and are free from defects and faults  **1.15** Identify and report difficulties in meeting the specification  **1.16** Identify, report and refer deviations from specification in accordance with organisation’s rules, codes, guidelines and standards. |  |  |  |  |
| **2.1** Confirm machinery/equipment is safe, clean and ready to use  **2.2** Perform emergency stop test procedures on machinery  **2.3** Check liquor levels and ratios, temperatures, pressures and timings  **2.4** Prepare to dye fabrics in accordance with health and safety regulations.  **2.5** Perform the dyeing process operating machinery/equipment safely and in accordance with organisation’s rules, codes, guidelines and standards.  **2.6** Monitor and adjust machine performance during the dyeing process to maintain quality standards and production targets  **2.7** Monitor fabric feel and appearance throughout the dyeing process and report deviations in accordance with organisation’s rules, codes, guidelines and standards.  **2.8** Identify, mark and place rejects in the designated location  **2.9** Awareness of machine loading procedures after wet processing  **2.10** Carry out cleaning of machinery before dyeing the next batch, to avoid colour contamination |  |  |  |  |
| **3.1** Explain why performing quality checks can contribute to production targets  **3.2** Inspect products against specifications  **3.3** Identify types of faults which may occur in the dyeing process and the potential effects on quality  **3.4** Explain why it is important to segregate and mark rejects  **3.5** Identify two potential consequences of not rectifying problems  **3.6** Explain why it is important to record details of adjustments and the potential consequences of not recording them.  **3.7** Identify two equipment faults that may occur, explain how they are identified and how they should be dealt with |  |  |  |  |

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**J/502/4027 Dyeing sewn garments**

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| Assessment Criteria | Evidence (Brief description/title) | Portfolio Reference | Date Completed | Comment |
| **1.1** Explain the dyeing process   * fabric preparation * dyeing * finishing   **1.2** Ensure that the work area is suitable and free from any hazards and obstructions  **1.3** Describe safe chemical handling procedures  **1.4** Identify specific hazards likely to be encountered in the dyeing sewn garments processes and how they can be avoided  **1.5** Identify the characteristics of different fabric types and the qualities of pre-dyed (greige) materials  **1.6** Identify different colours across the full spectrum  **1.7** Explain the differences between different types of equipment  **1.8** Identify dyestuff/chemicals used in different processes and explain what happens to them as they are processed  **1.9** Identify why processed and part-processed materials, excess materials and recoverable by-products should be separated out during production  **1.10** Prepare equipment for use according to instructions, characteristics of material and in accordance with organisation’s rules, codes, guidelines and standards  **1.11** Organise work in accordance with instructions  **1.12** Confirm sufficient raw material and support services are available to commence processing  **1.13** Confirm suitable containment and storage facilities are available for processed, part-processed materials, excess materials and recoverable by-products  **1.14** Confirm components are in line with the specification and are free from defects and faults  **1.15** Identify and report difficulties in meeting the specification  **1.16** Identify, report and refer deviations from specification in accordance with organisation’s rules, codes, guidelines and standards |  |  |  |  |
| **2.1** Confirm machinery/equipment is safe, clean and ready to use  **2.2** Perform emergency stop test procedures on machinery  **2.3** Check liquor levels and ratios, pH level, temperatures, pressures and timings  **2.4** Prepare to dye sewn garments in accordance with health and safety regulations  **2.5** Perform the dyeing sewn garments processes operating machinery/equipment safely and in accordance with organisation’s rules, codes, guidelines and standards  **2.6** Monitor and adjust machine performance during the dyeing sewn garments processes to maintain quality standards and production targets  **2.7** Monitor fabric feel and appearance throughout the dyeing sewn garments processes and report deviations in accordance with organisation’s rules, codes, guidelines and standards.  **2.8** Identify, mark and place rejects in the designated location  **2.9** Awareness of machine loading procedures after wet processing  **2.10** Carry out cleaning of machinery before dyeing the next batch, to avoid colour contamination |  |  |  |  |
| **3.1** Explain why performing quality checks can contribute to production targets  **3.2** Inspect products against specifications  **3.3** Identify types of faults which may occur in the dyeing sewn garments processes and the potential effects on quality  **3.4** Explain why it is important to segregate and mark rejects  **3.5** Identify two potential consequences of not rectifying problems  **3.6** Explain why it is important to record details of adjustments and the potential consequences of not recording them  **3.7** Identify two equipment faults that may occur, explain how they are identified and how they should be dealt with |  |  |  |  |

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**L/502/4028 Rotary fabric printing**

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| Assessment Criteria | Evidence (Brief description/title) | Portfolio Reference | Date Completed | Comment |
| **1.1** Explain the rotary printing processes, to include   * screen mesh sizes and the relationship to fabric type and colours used * fixation processes required for different dye classes   **1.2** Ensure that the work area is suitable and free from any hazards and obstructions  **1.3** Describe safe chemical handling procedures  **1.4** Identify specific hazards likely to be encountered in the rotary printing processes and how they can be avoided  **1.5** Identify the characteristics of different fabric types and the qualities of pre-dyed (greige) materials  **1.6** Identify different colours across the full spectrum  **1.7** Explain the differences between different types of equipment  **1.8** Identify materials used in different processes and explain what happens to them as they are processed  **1.9** Identify why processed and part-processed materials, excess materials and recoverable by-products should be separated out during production  **1.10** Prepare equipment for use according to instructions, characteristics of material and in accordance with organisation’s rules, codes, guidelines and standards  **1.11** Organise work in accordance with instructions  **1.12** Confirm sufficient raw material and support services are available to commence processing  **1.13** Confirm suitable containment and storage facilities are available for processed, part-processed materials, excess materials and recoverable by-products  **1.14** Confirm components are in line with the specification and are free from defects and faults  **1.15** Identify and report difficulties in meeting the specification  **1.16** Identify, report and refer deviations from specification in accordance with organisation’s rules, codes, guidelines and standards |  |  |  |  |
| **2.1** Confirm machinery/equipment is safe, clean and ready to use  **2.2** Perform emergency stop test procedures on machinery  **2.3** Check paste consistency/viscosity, roller pressure, bed height and drying temperature  **2.4** Prepare to carry out rotary fabric printing in accordance with health and safety regulations  **2.5** Perform the rotary fabric printing process operating machinery/equipment safely and in accordance with organisation’s rules, codes, guidelines and standards  **2.6** Monitor and adjust machine performance during the rotary fabric printing process to maintain quality standards and production targets  **2.7** Monitor fabric feel and appearance throughout the rotary fabric printing process and report deviations in accordance with organisation’s rules, codes, guidelines and standards  **2.8** Identify, mark and place rejects in the designated location  **2.9** Carry out cleaning of machinery before printing the next batch, to avoid colour contamination |  |  |  |  |
| **3.1** Explain why performing quality checks can contribute to production targets  **3.2** Inspect products against specifications  **3.3** Identify types of faults which may occur in the rotary fabric printing process and the potential effects on quality  **3.4** Explain why it is important to segregate and mark rejects  **3.5** Identify two potential consequences of not rectifying problems  **3.6** Explain why it is important to record details of adjustments and the potential consequences of not recording them  **3.7** Identify two equipment faults that may occur, explain how they are identified and how they should be dealt with |  |  |  |  |

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| **TUTOR COMMENTS:**  **Name: Signature: Date:** |

If chosen for sampling, Internal/External Moderators must complete the following:

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| INTERNAL MODERATOR COMMENTS:  **Name: Signature: Date:** |
| EXTERNAL MODERATOR COMMENTS:  **Name: Signature: Date:** |

Please ensure these forms are copied and distributed to each learner.

## Centre Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Learner Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Notes to learners – this checklist is to be completed, to show that you have met all the mandatory and required optional units for the qualification.

**R/502/4029 Screen printing individual items / garments**

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| Assessment Criteria | Evidence (Brief description/title) | Portfolio Reference | Date Completed | Comment |
| **1.1** Explain the screen printing process, to include   * preparing images supplied by the customer * technical considerations * setting up screens for printing * inks * setting up the manual carousel * curing the printed image   **1.2** Ensure that the work area is suitable and free from any hazards and obstructions  **1.3** Describe safe chemical handling procedures  **1.4** Identify specific hazards likely to be encountered in the screen printing process and how they can be avoided  **1.5** Identify the characteristics of different fabric types and the qualities of pre-dyed (greige) materials  **1.6** Identify different colours across the full spectrum  **1.7** Explain the differences between different types of equipment  **1.8** Identify materials/chemicals used in different processes and explain what happens to them as they are processed  **1.9** Identify why processed and part-processed materials, excess materials and recoverable by-products should be separated out during production  **1.10** Prepare equipment for use according to instructions, characteristics of material and in accordance with organisation’s rules, codes, guidelines and standards  **1.11** Organise work in accordance with instructions  **1.12** Confirm sufficient raw material and support services are available to commence processing  **1.13** Confirm suitable containment and storage facilities are available for processed, part-processed materials, excess materials and recoverable by-products  **1.14** Confirm components are in line with the specification and are free from defects and faults  **1.15** Identify and report difficulties in meeting the specification  **1.16** Identify, report and refer deviations from specification in accordance with organisation’s rules, codes, guidelines and standards |  |  |  |  |
| **2.1** Confirm machinery/equipment is safe, clean and ready to use  **2.2** Perform emergency stop test procedures on machinery  **2.3** Check paste consistency/viscosity, mesh blockages, screen faults, item security on bed and drying temperature  **2.4** Prepare to screen print in accordance with health and safety regulations.  **2.5** Perform the screen printing process, including   * preparing images supplied by the customer * any technical considerations * setting up screens for printing * setting up the manual carousel * curing the printed image   operating the machinery / equipment safely and in accordance with organisation’s rules, codes, guidelines and standards  **2.6** Monitor and adjust machine performance during the screen printing process to maintain quality standards and production targets  **2.7** Monitor fabric feel and appearance throughout the screen printing process and report deviations in accordance with organisation’s rules, codes, guidelines and standards  **2.8** Identify, mark and place rejects in the designated location  **2.9** Carry out cleaning of machinery before printing the next batch, to avoid colour contamination |  |  |  |  |
| **3.1** Explain why performing quality checks can contribute to production targets  **3.2** Inspect products against specifications  **3.3** Identify types of faults which may occur in the screen printing process and the potential effects on quality  **3.4** Explain why it is important to segregate and mark rejects  **3.5** Identify two potential consequences of not rectifying problems  **3.6** Explain why it is important to record details of adjustments and the potential consequences of not recording them  **3.7** Identify two equipment faults that may occur, explain how they are identified and how they should be dealt with |  |  |  |  |

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Notes to learners – this checklist is to be completed, to show that you have met all the mandatory and required optional units for the qualification.

**L/502/4031 Carry out textile manufacturing operations**

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| Assessment Criteria | Evidence (Brief description/title) | Portfolio Reference | Date Completed | Comment |
| **1.1** Explain the operating principles of processing equipment, including shut down processes  **1.2** Ensure that the work area is suitable and free from any hazards and obstructions  **1.3** Identify specific hazards likely to be encountered in the textile manufacturing operations and how they can be avoided  **1.4** Identify the characteristics of different types of materials and explain the implications of this for processing  **1.5** Identify why processed and part-processed materials, excess materials and recoverable by-products should be separated out during production  **1.6** Prepare equipment for use according to instructions, characteristics of material and in accordance with organisation’s rules, codes, guidelines and standards  **1.7** Organise work in accordance with instructions  **1.8** Confirm sufficient raw material and support services are available to commence processing  **1.9** Confirm suitable containment and storage facilities are available for processed, part-processed materials, excess materials and recoverable by-products  **1.10** Confirm components are in line with the specification and are free from defects and faults  **1.11** Identify and report difficulties in meeting the specification  **1.12** Identify, report and refer deviations from specification in accordance with organisation’s rules, codes, guidelines and standards |  |  |  |  |

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| **2.1** Confirm machinery/equipment is safe, clean and ready to use  **2.2** Perform emergency stop test procedures on machinery  **2.3** Prepare to carry out textile manufacturing operations in accordance with health and safety regulations, including   * choosing correct equipment to transfer materials * safe loading levels / weights of machinery * specific safe working practices for lifting and moving materials   **2.4** Demonstrate how to operate the appropriate machinery/equipment safely and in accordance with organisation’s rules, codes, guidelines and standards  **2.5** Monitor and adjust machine performance during the process to maintain quality standards and production targets  **2.6** Monitor fabric feel and appearance throughout the process and report deviations in accordance with organisation’s rules, codes, guidelines and standards  **2.7** Identify, mark and place rejects in the designated location  **2.8** Carry out cleaning of equipment/machinery for further use |  |  |  |  |
| **3.1** Explain why performing quality checks can contribute to production targets  **3.2** Inspect products against specifications  **3.3** Identify types of faults which may occur in the process and the potential effects on quality  **3.4** Explain why it is important to segregate and mark rejects  **3.5** Identify two potential consequences of not rectifying problems  **3.6** Explain why it is important to record details of adjustments and the potential consequences of not recording them  **3.7** Identify two equipment faults that may occur, explain how they are identified and how they should be dealt with |  |  |  |  |

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