



**NATIONAL CERTIFICATE MODULE: UNIT SPECIFICATION****STATEMENT OF STANDARDS****UNIT NUMBER:** 3240073**UNIT TITLE:** DOMESTIC MACHINE KNITTING - RIBBING  
ATTACHMENT 2

Acceptable performance in this unit will be the satisfactory achievement of the standards set out in this part of the specification. All sections of the statement of standards are mandatory and cannot be altered without reference to SQA.

**OUTCOME**

1. Explain the use of finer weights of yarn for double bed patterning.

**PERFORMANCE CRITERIA**

- (a) The identification of types of yarn suitable for double bed work is correct.
- (b) The explanation of the principle of the close knit bar is accurate.

**RANGE STATEMENT**

Types of yarns: natural and synthetic.

**EVIDENCE REQUIREMENTS**

Spoken or written identification of the range of yarn types.

Spoken or written explanation of the principle of the close knit bar.

**OUTCOME**

2. PRODUCE SAMPLES OF CIRCULAR KNITTING AND SIMPLE PIN TUCKS

**PERFORMANCE CRITERIA**

- (a) The explanation of the principles of cam and tension dial settings is accurate with respect to circular knitting.
- (b) The setting-up of the machine and accessories is completed in accordance with recognised techniques and procedures.
- (c) The production of a sample of circular knitting is correct with respect to given specification.

- (d) The production of simple pin tucking is correct with respect to given specification.

### **RANGE STATEMENT**

Machine accessories: close knit bar; cast on combs; weights.

### **EVIDENCE REQUIREMENTS**

Performance evidence of the setting up of the range of machine accessories in the production of a sample of circular knitting and simple pin tucking.

Spoken or written explanation of the principles of cam and tension dial settings.

### **OUTCOME**

- 3. PRODUCE WIDE RIBS AND PLEATS**

### **PERFORMANCE CRITERIA**

- (a) The setting up of the beds for the initial casting on sequence is correct with respect to given specification.
- (b) The application of appropriate procedures is correct with respect to given specification.
- (c) The setting-up of the machine to achieve matching-side seams, and configuration in pleats is correct.
- (d) The use of the plating feeder is correct with respect to given specification.
- (e) The production of wide ribs and pleat formations is correct.

### **RANGE STATEMENT**

Procedures: setting up needle configuration; racking procedure; stitch transfer between beds; tension and shaping by tension procedures.

### **EVIDENCE REQUIREMENTS**

Performance evidence of the application of the range of procedures used in production of wide ribs and pleat formations, including the setting up of the beds, the machine and use of plating feeder.

### **OUTCOME**

- 4. PRODUCE SAMPLES OF SELECTIVE PATTERNS**

**PERFORMANCE CRITERIA**

- (a) The explanation of the principles of given settings is accurate.
- (b) The explanation of the principles of the pattern media required to produce given stitch patterns is accurate.
- (c) The setting up of the machinery to produce specified fabrics is correct.
- (d) The production of specified fabrics is correct with respect to given specification.

**RANGE STATEMENT**

Settings: cam and needle settings.

Stitch patterns: tuck and slip-part - empty stitch patterns.

Specified fabrics: punch tuck rib; tuck rib; slip rib knitting; punch pin tucks.

**EVIDENCE REQUIREMENT**

Performance evidence of the range of settings to produce the given range of specified fabrics.

Spoken or written explanation of the principles of given settings and pattern media.

**OUTCOME****5. KNIT A GARMENT PANEL IN DOUBLE JACQUARD****PERFORMANCE CRITERIA**

- (a) The setting-up of the double bed colour changer is completed in accordance with the manufacturers specified procedures.
- (b) The explanation of the principles of the cam and needle settings is correct.
- (c) The transposition of a single bed pattern to a double jacquard punchcard is completed in accordance with recognised techniques and procedures.
- (d) The production of fabric samples using the newly created patterning media is correct.
- (e) The production of a garment panel in double jacquard is correct with respect to the given size and specifications.

**RANGE STATEMENT**

The range for this outcome is fully expressed within the performance criteria.

**EVIDENCE REQUIREMENTS**

Performance evidence of performance criteria (a), (c), (d) and (e).

Spoken written evidence of the explanation of the principles within performance criterion (b).

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### **ASSESSMENT RECORDS**

In order to achieve this unit, candidates are required to present sufficient evidence that they have met all the performance criteria for each outcome within the range specified. Details of these requirements are given for each outcome. The assessment instruments used should follow the general guidance offered by the SQA assessment model and an integrative approach to assessment is encouraged. (See references at the end of support notes).

Accurate records should be made of assessment instruments used showing how evidence is generated for each outcome and giving marking schemes and/or checklists, etc. Records of candidates' achievements should be kept. These records will be available for external verification.

### **SPECIAL NEEDS**

In certain cases, modified outcomes and range statements can be proposed for certification. See references at end of Support Notes.

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**NATIONAL CERTIFICATE MODULE: UNIT SPECIFICATION****SUPPORT NOTES****UNIT NUMBER** 3240073**UNIT TITLE** DOMESTIC MACHINE KNITTING - RIBBING  
ATTACHMENT 2

**SUPPORT NOTES:** This part of the unit specification is offered as guidance. None of the sections of the support notes is mandatory.

**NOTIONAL DESIGN LENGTH:** SQA allocates a notional design length to a unit on the basis of time estimated for achievement of the stated standards by a student whose starting point is as described in the access statement. The notional design length for this unit is 40 hours. The use of notional design length for programme design and timetabling is advisory only.

**PURPOSE** This module is designed for those who wish to set up in small business, for occupational therapy and for those pursuing leisure activities.

SQA publishes summaries of NC units for easy reference, publicity purposes, centre handbooks, etc. The summary statement for this unit is as follows:

This module will enable you to gain an understanding of and practical experience of knitting complex patterns on a double bed knitting machine. You will learn the techniques of circular knitting, produce wide ribs and pleats, eventually producing pattern samples and knitting a garment panel. As well as explaining various principles involved in these processes you will also gain an understanding of finer yarn weights for double bed patterning. This module could be taken as part of a full-time or part-time programme.

**CONTENT/CONTEXT** Corresponding to Outcomes 1-5

The candidate should at all times comply with procedures and regulations designed for safe practice and use safe working practices specified for equipment and work areas.

Corresponding to the Outcomes:

1. Natural and synthetic yarns, suitable yarn types and weights, use of the close knit bar.
2. Factors relating to correct choice of stitch size. Cam and tension dial settings. Appropriate uses of tubular or circular fabric. Needle settings. The use of simple pintucking.
3. Initial cast on needle set-ups. Racking and transfer techniques. Suitable tension settings. Matching side seams in ribs. Setting edge needles for pleat formations. the use of the plating feeder.

4. Cam settings and optimum stitch sizes for selective stitch patterns. Patterning media required to produce slip ribs, punch pin tuck, punch tuck rib and tuck rib stitches.
5. Use of the double bed colour changer, cam and needle settings required for double jacquard, negative and positive conversion of patterning media required for the punch card machines. Garment panel in Double jacquard fabric.

**APPROACHES TO GENERATING EVIDENCE** A candidate-centred, resource-based learning approach is recommended. During the work of the module the candidates should have several opportunities to develop their practical skills, and should be assessed at appropriate points. Each procedure should be demonstrated and followed by supervised participation by the candidate. Terminology should be presented in context throughout the module. Exemplars of garment panels should be available for the candidate's to compare standards. Candidates progress should be monitored by an ongoing assessment of properly structured work books. Safe practices and care in the use of equipment should be an integral part of the module activities.

Where the candidate is unsuccessful in achieving an Outcome, provision should be made for remediation and reassessment.

It is recommended that this module and Domestic Machine Knitting - Ribbing Attachment 1 be delivered together as a complete programme.

**ASSESSMENT PROCEDURES** Centres may use the Instruments of Assessment which are considered by tutors/trainers to be the most appropriate.

Examples of Instruments of Assessment which could be used are as follows.

Outcome 1	A mixture of restricted response questions or short answer questions, and structured questions could be used here. A practical exercise could be used for the candidate to identify types of yarn.
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## Outcomes 2-5

Mainly practical based with an amount of knowledge required, therefore a project is recommended here. The practical exercises for each Outcome completed separately could be evidenced by an observation checklist in addition to the production of samples where required. The candidate could also produce a work book to evidence the knowledge possibly using structured questions. The appropriate number of questions should be set to enable the candidate to demonstrate the required ranges adequately.

**EXEMPLARS** The Ribbing Attachment Part I, Part II and Easy Fair Isle for the Brother Ribber - Mary Weaver.

**RECOGNITION** Many SQA NC units are recognised for entry/recruitment purposes. For up-to-date information see the SQA guide 'Recognised and Recommended Groupings'.

**REFERENCES**

1. Guidelines for Module Writers.
2. SQA's National Standards for Assessment and Verification.
3. For a fuller discussion on assessment issues, please refer to SQA's Guide to Assessment.
4. Procedures for special needs statements are set out in SQA's guide 'Students with Special Needs'.

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