

-SQA- SCOTTISH QUALIFICATIONS AUTHORITY

NATIONAL CERTIFICATE MODULE: UNIT SPECIFICATION

GENERAL INFORMATION

-Module Number- 3310084 **-Session-**1994-95
-Superclass- WH
-Title- WOVEN FABRIC PRODUCTION: WEAVING
PREPARATORY PROCESSES

-DESCRIPTION-

GENERAL COMPETENCE FOR UNIT: Describing the importance of yarn preparation, re-winding yarn and preparing a warp for the loom. Identifying the functions of pinning, tying and sizing.

OUTCOMES

- 1. describe the importance of correct yarn preparation;
- 2. describe the reasons for, and methods of, re-winding yarn;
- 3. prepare a warp for the loom;
- 4. identify the functions of pinning, tying and sizing.

CREDIT VALUE: 1 NC Credit

ACCESS STATEMENT: There are no formal entry requirements.

For further information contact: Committee and Administration Unit, SQA, Hanover House, 24 Douglas Street, Glasgow G2 7NQ.

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NATIONAL CERTIFICATE MODULE: UNIT SPECIFICATION**STATEMENT OF STANDARDS****UNIT NUMBER:** 3310084**UNIT TITLE:** WOVEN FABRIC PRODUCTION: WEAVING
PREPARATORY PROCESSES

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. DESCRIBE THE IMPORTANCE OF CORRECT YARN PREPARATION

PERFORMANCE CRITERIA

- (a) The description of the reasons for winding and re-winding yarn is accurate.
- (b) The description of common faults arising from incorrect yarn preparation is correct.
- (c) The description of the reasons for the necessity for tension and length control is correct.

RANGE STATEMENT

Reasons for winding/re-winding: storage; clearing; subsequent processing; removal of faults.

Common faults: thick/thin places; wrong type of knots; slipped knots; slubs; variation in count.

Tension and length control: package density; tension; delays in subsequent processes.

EVIDENCE REQUIREMENTS

Written evidence of the ability to describe reasons for winding and re-winding, common faults from incorrect yarn preparation, and reasons for the necessity for tension and length control covering the above specified ranges.

OUTCOME

2. DESCRIBE THE REASONS FOR, AND THE METHODS OF, RE-WINDING YARN

PERFORMANCE CRITERIA

- (a) The description of the setting and operating procedures for a winding machine is correct.
- (b) The setting of yarn clearers, tension devices and package density is correct.
- (c) The description of the reasons for re-winding is correct.
- (d) The description of the yarn and package faults is correct.

RANGE STATEMENT

The range statement for this outcome is specified within the performance criteria.

EVIDENCE REQUIREMENTS

Written evidence of the ability to describe setting and operating procedures, reasons for rewinding yarn and package faults.

Practical evidence of the ability to set yarn clearers, tension devices and package density.

OUTCOME

3. PREPARE A WARP FOR THE LOOM

PERFORMANCE CRITERIA

- (a) The description of the methods of preparing a warp using the indirect method is correct.
- (b) The description of the methods of preparing a warp using the direct method is correct.
- (c) The description of the methods of drawing and slewing is correct.
- (d) The use of the procedures of warping and drawing are correct.

RANGE STATEMENT

Warping methods: stake warping; single thread warping; beam warping; sectional warping.

Drawing methods: manual; machine assisted; automatic.

EVIDENCE REQUIREMENTS

Written evidence of the ability to describe the specified methods and practical evidence of the ability to use procedures and warping and drawing covering the above ranges.

Safe working practices and procedures must be complied with at all times.

OUTCOME**4. IDENTIFY THE USES OF PINNING, TYING AND SIZING****PERFORMANCE CRITERIA**

- (a) The identification of the methods of pinning and tying is correct.
- (b) The identification of the ingredients of a size paste is correct.
- (c) The identification of the basic principles of sizing is correct.

RANGE STATEMENT

Pinning: insertion by hand; machine assisted.

Tying: manual; machine assisted; automatic.

Sizing: cylinder; lasers; hot air drying; combined system.

EVIDENCE REQUIREMENTS

Written evidence of the ability to identify methods of pinning and tying, ingredients of a size paste and the basic principles of sizing using the above specified ranges.

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: 3310084

UNIT TITLE: WOVEN FABRIC PRODUCTION: WEAVING
PREPARATORY PROCESSES

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 candidate 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 will enable the candidate to extend his/her knowledge of the processes required to prepare yarn for weaving.

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

The module will enable you to develop an understanding of the production methods used in warp preparation, yarn winding and the ancillary areas of production associated with preparatory processes.

CONTENT/CONTEXT Safety regulations contained in the Health and Safety at Work Act, COSHH and other relevant legislation are observed.

Corresponding to Outcomes 1-4:

1. The influence of preparatory processes on weaving performance. Importance of tension and length control.
2. The use of different supply packages and wound packages. Yarn and package faults: clearing and the influence of clearing on the finished product. The setting and operation of winding machines. The reasons for steaming and typical steaming defects.

3. The procedures for preparing a warp. Methods of producing warps and their range of applications: beam warping; stake warping; sectional warping and single thread warping. Methods of drawing and sleying: manual, machine assisted and automatic.
4. The methods of pinning and tying. Basic principles of sizing, their suitability and application.

APPROACHES TO GENERATING EVIDENCE Methods of correct yarn preparation should be demonstrated. Films/or industrial visits could be arranged to highlight this.

A range of methods of rewinding yarns should be shown and reasons given for the choice of method. Practical exercises in which candidates identify faults and prepare yarn packages for a particular use.

The candidates should assist with the preparation and production of a warp and draw and sley according to instructions.

Demonstration of a range of uses of pinning, tying and sizing should be given, followed by candidate practical exercises.

ASSESSMENT PROCEDURES Centres may use Instruments of Assessment which are considered by tutors/trainers to be the most appropriate. Examples of instruments which could be used are as follows:

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| Outcome 1 | It is recommended that written/graphics exercises are set here relating to common faults, tension and length control as contained Performance criteria (a)-(c). |
| Outcome 2 | It is recommended that written/graphics exercises are set here relating to the setting and operating procedures for winding machines, rewinding yarn and typical yarn and package faults as contained in Performance Criteria (a)-(c), plus practical exercises on machine setting. |
| Outcome 3 | It is recommended that written/graphics exercises are set here relating to methods of preparing a warp, and the procedures for drawing and sleying as contained in Performance Criteria (a)-(c), plus practical exercises on warping and drawing. |
| Outcome 4 | It is recommended that an observation checklist should be used to evidence the candidate's competence on completion of the practical exercises relating to Performance Criteria (a)-(c). |

PROGRESSION Candidates could progress on to Higher National units.

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. Guide to unit writing.
2. For a fuller discussion on assessment issues, please refer to SQA's Guide to Assessment.
3. Procedures for special needs statements are set out in SQA's guide 'Students with Special Needs'.
4. Information for centres on SQA's operating procedures is contained in SQA's Guide to Procedures.
5. For details of other SQA publications, please consult SQA's publications list.

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