

-SQA- SCOTTISH QUALIFICATIONS AUTHORITY

NATIONAL CERTIFICATE MODULE: UNIT SPECIFICATION

GENERAL INFORMATION

-Module Number-	3310064	-Session-1994-95
-Superclass-	WH	
-Title-	WOVEN FABRIC PRODUCTION: FABRIC STRUCTURES I	

-DESCRIPTION-

GENERAL COMPETENCE FOR UNIT: Using methods of notating woven fabric designs, constructing plans and structures and weaving samples of a specified design using relevant information.

OUTCOMES

1. use the methods of notating woven fabric designs;
2. construct, on point (design) paper, basic weave structures;
3. construct drafts and lifting (peg) plans for basic weave structures;
4. weave samples of a specified design using the information contained in draft and lifting (peg) plans.

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:** 3310064**UNIT TITLE:** WOVEN FABRIC PRODUCTION: FABRIC
STRUCTURES I

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. USE THE METHODS OF NOTATING WOVEN FABRIC DESIGNS

PERFORMANCE CRITERIA

- (a) The use of different types of notation is correct with respect to given specification.
- (b) The use of methods of signifying warp and weft floats is accurate.
- (c) The comparison of woven fabrics, flat plans and cross-sectional views is correct with respect to given specifications.

RANGE STATEMENT

Notation: crosses; blocks; marks; stitching marks.

Warp and weft floats: floats of one; two; three; four.

Woven Fabrics: simple weaves; flat plans; cross-sectional views.

EVIDENCE REQUIREMENTS

Written/graphics evidence, as part of a folio, from practical evidence on point (design) paper to demonstrate the use of notational systems; use the notation to construct simple weaves to demonstrate the relationship between design paper and fabrics structure.

OUTCOME

2. CONSTRUCT, ON POINT (DESIGN) PAPER, BASIC WEAVE STRUCTURES

PERFORMANCE CRITERIA

- (a) The construction of sateen based weaves is accurate with respect to given specifications.
- (b) The development of sateen based weaves is accurate with respect to given specifications.
- (c) The construction of weave stripes and checks is correct.
- (d) The use of simple colour and weave effects is correct with respect to given specifications.

RANGE STATEMENT

Basic weaves: plain; twill; hopsack; sateens.

Sateen Based Weaves: mock gauze; huckaback; honeycomb; crepe.

Weave Stripes: herring-bone; broken twills; multiple twills.

Colour and weave effects: continuous line effects; hounds tooth; checks and stripes.

EVIDENCE REQUIREMENTS

Written evidence, in a folio, from practical evidence on point (design) paper of the ability to use the technique of design construction in a range of fabric categories. Each performance criterion must comply with safe working practices and procedures.

OUTCOME

3. CONSTRUCT DRAFTS AND LIFTING (PEG) PLANS FOR BASIC WEAVE STRUCTURES

PERFORMANCE CRITERIA

- (a) The construction of draft and lifting (peg) plan for a specified weave is correct using the Scottish system.
- (b) The construction of the draft and lifting (peg) plan for a specified weave is correct using the English system.

RANGE STATEMENT

Drafts: straight; pointed; herring-bone; irregular.

Peg plans: pegs; punched cards.

EVIDENCE REQUIREMENTS

Written/graphics evidence, in a folio from practical evidence on point (design) paper of the ability to construct drafts and lifting (peg) plans as specified, using both the Scottish and English systems. Each performance criterion must comply with safe working practices and procedures.

OUTCOME

4. WEAVE SAMPLES OF A SPECIFIED DESIGN USING THE INFORMATION CONTAINED IN DRAFT AND LIFTING (PEG) PLANS

PERFORMANCE CRITERIA

- (a) The construction of designs for specified weaves is accurate.
- (b) The fitting drafts and lifting (peg) plans to a designated loom or weaving machine is correct.
- (c) The fabrics are woven to a given specification on a loom/weaving machine.

RANGE STATEMENT

Weaving practical: loom; weaving machine.

EVIDENCE REQUIREMENTS

Practical evidence of the ability to construct designs for specified weaves and produce woven fabric samples which are included in the folio of work, accompanied by the drafts and lifting (peg) plans. Each performance criterion must comply with safe working practices and procedures.

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: 3310064

UNIT TITLE: WOVEN FABRIC PRODUCTION: FABRIC STRUCTURES I

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 fabric structure.

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 acquire a basic knowledge of the construction of woven fabric design and provide an introduction to the associated techniques and skills inherent in fabric manufacture.

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 use of design paper and the relationship between design paper and fabric structure. Methods of marking design paper. Comparison of simple weaves with woven fabrics, flat plans and cross-sectional views.
2. The construction of basic weaves: plain, twill, hopsack, sateen and their derivations. Development of twill weaves; multiple twills; combination of weaves to give fancy diagonals. Development of sateen based weaves: mayo twills gauze weaves, diamonds. Weave stripes and checks and simple colour effects.
3. Methods of producing drafts and lifting (peg) plans and their relationship with the weaves. Translation from draft and lifting plan to weave.

4. Production of samples of woven fabric from a specified design by constructing the appropriate draft and lifting (peg) plan.

APPROACHES TO GENERATING EVIDENCE Each technique and process should be demonstrated and followed by small group and individual activities. Delivery of formal lectures should be kept to a minimum.

On gaining sufficient experience, the candidate should be encouraged to formulate and develop his/her own designs and follow through the planning and production of a woven sample.

Candidates should compile a folio comprising of design and production details and associated woven samples. Where time permits, candidates should assist in the setting up and production of a range of fabrics.

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, using the standard notation relating to a given range of fabric structures as contained in Performance Criteria (a)-(c). |
| Outcome 2 | It is recommended that written/graphics exercises are set here to construct specified weave structures contained in Performance Criteria (a)-(d). |
| Outcome 3 | It is recommended that written/graphics exercises are set here to produce drafts and lifting (peg) plans for stated weave structures as specified in Performance Criteria (a)-(c). |
| Outcome 4 | It is recommended that practical exercises are set here, where the candidate weaves a fabric sample from given instructions to comply with 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. 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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