

**-SQA-SCOTTISH QUALIFICATIONS AUTHORITY**

**NATIONAL CERTIFICATE MODULE: UNIT SPECIFICATION**

**GENERAL INFORMATION**

|                        |                                                                                    |                          |
|------------------------|------------------------------------------------------------------------------------|--------------------------|
| <b>-Module Number-</b> | <b>8210024</b>                                                                     | <b>-Session- 1994-95</b> |
| <b>-Superclass-</b>    | <b>VF</b>                                                                          |                          |
| <b>-Title-</b>         | <b>DRAWING SKILLS: TECHNICAL DRAUGHTING -<br/>MEASURED PERSPECTIVE PROJECTIONS</b> |                          |

**-DESCRIPTION-**

**GENERAL COMPETENCE FOR UNIT:** Producing drawings using measured perspective projection methods.

**OUTCOMES**

1. interpret given information for measured perspective drawings;
2. produce drawings using measured perspective projection methods.

**CREDIT VALUE:** 1 NC Credit

**ACCESS STATEMENT:** Prior achievement of 8210014 Drawing Skills: Technical Draughting - Parallel Projection would be beneficial.

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:** 8210024**UNIT TITLE:** DRAWING SKILLS: TECHNICAL DRAUGHTING -  
MEASURED PERSPECTIVE PROJECTIONS

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. INTERPRET GIVEN INFORMATION FOR MEASURED PERSPECTIVE DRAWINGS

**PERFORMANCE CRITERIA**

- (a) The selection of a viewpoint is appropriate to the measurement perspective projection method.
- (b) The selection of a measurement system is geometrically correct.
- (c) The selection of scale is appropriate to the format used and clearly communicates the information.

**RANGE STATEMENT**

Measurement system: measuring point; plan projection.

Measured perspective projection method: one-point; two-point; three-point.

**EVIDENCE REQUIREMENTS**

Written evidence that the candidate can interpret the given information as detailed in PC's (a) to (c) for each of the measured perspective projection methods itemised in the range statement.

**OUTCOME**

2. PRODUCE DRAWINGS USING MEASURED PERSPECTIVE PROJECTION METHODS

**PERFORMANCE CRITERIA**

- (a) The positioning of drawings and graphical information shows control of factors which influence overall visual composition.
- (b) The use of instruments and equipment is precise and in accordance with good practice.
- (c) All measurements are accurate.
- (d) The use of line to express form is appropriate to the given information.
- (e) The use of measured perspective projection methods is correct.

**RANGE STATEMENT**

Graphical information: image; titling.

Form: vertical; horizontal; angular; curved (might include circular).

Measured perspective projection method : one-point; two-point; three-point.

**EVIDENCE REQUIREMENTS**

Performance evidence that the candidate can produce drawings using measured perspective projection methods whilst demonstrating control and use of line as detailed in Performance Criteria (a)-(e) for each measured perspective projection method itemised in the range statement.

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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:** 8210024

**UNIT TITLE:** DRAWING SKILLS: TECHNICAL DRAUGHTING -  
MEASURED PERSPECTIVE PROJECTIONS

**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 may be taken subsequent to the satisfactory completion of NC Module 8210014 Drawing Skills: Technical Draughting - Parallel Projection or as a free-standing module. It is particularly suitable for candidates undertaking an introduction to measured perspective.

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 develop your skills in, and understanding of, measured perspective projection methods. On completion of the module you will be able to use one-point, two-point and three-point measured perspective projections.

**CONTENT/CONTEXT** Throughout this module safety must be stressed. Safe working practices, care and correct use of equipment should be an integral part of all module activities.

Corresponding to Outcomes 1 and 2:

Outcome 1 will require an introduction on the importance of correct interpretation of given information. It will require an explanation of how to choose an appropriate scale, viewpoint and measurement system.

Outcome 2 will require demonstration in the correct positioning of drawings and any additional graphical information. It will require a demonstration in the correct use of one-point, two-point and three-point measured perspective projection methods.

Note: It is acceptable to use finishing techniques such as variable line weight and/or tone to enhance a drawing.

**APPROACHES TO GENERATING EVIDENCE** A candidate-centred, resource-based learning approach is recommended. Source material may be derived from parallel projections, objects, or the environment. During the work of the module candidates will have the opportunity to develop their practical and analytical skills, and these should be assessed at appropriate points. Terminology should be presented in context.

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

**ASSESSMENT PROCEDURES** Centres may use the instruments of assessment that are considered to be most appropriate. Examples of instruments of assessment that could be used to generate and gather evidence of achievement are as follows:

Outcomes 1 & 2: Practical exercises to assess the candidate's ability in using one-point, two-point, and three-point measured perspective projection methods.

The drawings produced for Outcome 2 offer supplementary evidence for Outcome 1.

**PROGRESSION** It is also possible to apply and execute measured perspective projection methods in NC Module 8210034 Drawing Skills: Technical Draughting - Freehand Perspective Projections and modules in computer-aided draughting.

**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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