

-SQA-SCOTTISH QUALIFICATIONS AUTHORITY

**Hanover House
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NATIONAL CERTIFICATE MODULE DESCRIPTOR

-Module Number- 0095397 -Session-1989-90
-Superclass- VF

-Title- FURNITURE DRAWING 3

-DESCRIPTION-

Purpose This module is designed to develop the student's ability to produce detailed orthographic drawings and three dimensional projections together with specifications suitable for the design and manufacture of furniture.

Preferred Entry Level 75402 Furniture Drawing 2
95396 Furniture Construction

Learning Outcomes The student should:

1. interpret the requirements of a descriptive brief to produce annotated sketches;
2. set out and draw orthographic projections to scale;
3. draw three dimensional views to scale;
4. prepare workshop rods/drawings and material list.

Content/ Context Corresponding to Learning Outcome 1-4:

1. Dimensions, proportions, sections, joints, fittings and ornamentation for items of furniture such as tables, chairs, desks, cabinets, chests of drawers.
2. Plans, elevations, sections, metric scales, full size details, piece parts, annotations, abbreviations, symbols, current furniture standards. Drawings showing the relevant information necessary for the manufacture of furniture and its component parts.
3. Scaled views in axonometric, oblique, isometric and perspective projection, suitable scales, appropriate viewing angle, eye level, station point.

4. Full size workshop rods/drawing, dimensioned plans, piecepart drawings, elevations, sections, constructional details, minimum information. Unit material costs, orders lists, cutting lists, cutting diagrams, processing details, use of off-cuts.

Suggested Learning and Teaching Approaches

The approach should be student-centred and project based.

The degree of complexity should be increased as proficiency is gained. Relevant methods and techniques should be introduced at appropriate times.

Ready access should be provided to suitable sources of information.

Assessment Procedures

Acceptable performance in the module will be satisfactory achievement of all the performance criteria specified for each Learning Outcome.

The following abbreviations are used as below:

LO Learning Outcome

IA Instrument of Assessment

PC Performance Criteria

LO1

INTERPRET THE REQUIREMENTS OF A DESCRIPTIVE BRIEF TO PRODUCE ANNOTATED SKETCHES

PC The student:

- (a) produces sketches of stable, structurally sound items of furniture;
- (b) identifies dimensions, materials and joints;
- (c) sketches required features in full size/ exploded detail.

IA Assignment

The assignment should test the student's ability to produce preliminary annotated sketches by interpreting descriptive briefs. The student should be given briefs with full written specifications/requirements for 3 items of furniture.

The student will be required to:

- (i) produce clear, clean orthographic or three dimensional sketches of conventional or unorthodox design;
- (ii) annotate the sketches to provide information on overall dimensions, materials and joints;

- (iii) sketch joints, mouldings, etc., in full size/exploded detail.

Satisfactory achievement of the Learning Outcome will be demonstrated by the student producing appropriate sketches for the 3 items of furniture by the submission date.

LO2

SET OUT AND DRAW ORTHOGRAPHIC PROJECTIONS TO SCALE

PC The student:

- (a) produces scaled orthographic piece-part and completion drawings which comply with relevant British Standards;
- (b) uses correct lines, symbols and abbreviations;
- (c) identifies overall dimensions;
- (d) completes information panels.

IA Assignment

The assignment should test the student's ability to progress preliminary sketches, notes and diagrams for 2 items of furniture.

The student will be required to produce neat, clean, annotated, orthographic drawings suitable for interpretation in the manufacturing process.

Satisfactory achievement of the Learning Outcome will be demonstrated by the student producing appropriate sets of orthographic drawings for the 2 items of furniture by the submission date.

LO3

DRAW THREE DIMENSIONAL VIEWS TO SCALE

PC The student:

- (a) produces isometric drawings;
- (b) produces perspective drawings.

IA Assignment

The assignment should test the student's ability to draw to scale three dimensional views in isometric and perspective projection given sets of orthographic drawings for 2 items of furniture.

The student should select a suitable method and produce three dimensional views suitable for design analysis and modification of pre-production drawings.

Satisfactory achievement of the Learning Outcome will be demonstrated by the student producing appropriate three dimensional views for the 2 items of furniture by the submission date.

LO4

PREPARE WORKSHOP RODS/DRAWINGS AND MATERIAL LISTS

PC The student:

- (a) draws a workshop rod/drawing;
- (b) draws up a cutting and processing list;
- (c) compiles a bulk order list.

IA Assignment

The assignment should test the student's ability to produce full-size rods or drawings and prepare material lists for procurement, cutting and processing for quantity production given completed drawings/ specifications for 2 items of furniture.

The student will be required to:

- (i) progress the completed drawings to produce workshop rods or drawings which are suitable for workshop use in the manufacture and assembly of the items;
- (ii) complete lists for bulk material orders, cutting and processes for the items.

Satisfactory achievement of the Learning Outcome will be demonstrated by the student producing rods/drawings and the appropriate lists for the 2 items of furniture.