-SQA-SCOTTISH QUALIFICATIONS AUTHORITY

Hanover House
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NATIONAL CERTIFICATE MODULE DESCRIPTOR

-Module Number- **0061775** **-Session-1986-87**

-Superclass- **JH**

-Title- **JEWELLERY DESIGN: ETCHING**

-DESCRIPTION-

Type and Purpose

A general module which enables the student to acquire an understanding of etching as a means of decoration.

Preferred Entry Level

No formal entry qualifications.

Learning Outcomes

The student should:

1. select and use the basic materials, tools and equipment for jewellery design (etching);
2. produce finished designs for jewellery suitable for etching;
3. construct the jewellery in silver or copper;
4. de-grease metal;
5. apply designs to metal using etching techniques;
6. finish and polish work;
7. comply with safe working practices specified for the activity.

Content/ Context

Corresponding to the Learning Outcomes:

1. basic materials, e.g. copper, silver, nitric acid, ferric chloride, resist agent, etc.

   Basic tools and equipment, e.g. acid bath, plastic tongs, piercing saw, files, solder, soldering equipment, etc.

2. practical studies in the production of preparatory sketches and their development into finished designs which are suitable for etching. Simple mounting techniques for presentation of finished designs.

3. construction of simple jewellery forms, e.g. bangle, pendant. Forming using stakes, etc., soldering techniques, etc.

4. degreasing of metal using degreasing powder and emery paper or steel wool.

5. knowledge of the acids required for different types of metal, e.g. ferric chloride for copper, nitric acid for silver or copper.

   Practical studies in the application of acid resist and scratching a design through the resist using beeswax, ballground or shellac.

   Practical studies in the application of acid resist around a design using lacomit, shellac or beeswax.

   Practical studies in submerging piece in acid bath, leaving for required time until acid has eaten into metal, removing from acid bath and thorough rinsing.

6. removing acid resist by burning out or using lacomit remover.

   Polishing finished piece using emery paper or Water of Ayr stone, tripoli polish, rouge, etc.

7. safety, safe practices and care in use of equipment should be an integral part of all module activities.

Suggested Learning and Teaching Approaches

For Learning Outcomes 1-7 the tutor should demonstrate the various working methods and show examples to the students.

Students should experiment with the above techniques before going on to assignment work.

Students should work singly with guidance from the tutor.

Student activities should be centred on assignments and the tutor should prepare precise briefs for each assignment.

ASSIGNMENT 1 (Learning Outcomes 1-7)

(a) produce a finished design for a simple piece of jewellery which uses etching as a means of decoration;

(b) construct the piece in silver or copper;

(c) scratch a design through acid resist;

(d) etch the design;

(e) finish and polish work.

ASSIGNMENT 2 (Learning Outcomes 1-7)

(a) produce a finished design for a simple piece of jewellery which uses etching as a means of decoration;

(b) construct the piece in silver or copper;

(c) apply acid resist around the design to be etched;

(d) etch the design;

(e) finish and polish work.

The assignments may be repeated but only ONE example of each type should be presented for assessment.

All work for this module should be retained as part of a portfolio.

Assessment Procedures

Acceptable performance in the module will be the satisfactory achievement of the performance criteria (PC) for each Learning Outcome (LO).

IA Instrument of Assessment.

The student must successfully complete all the Learning Outcomes.

LO1 IA Assignments 1 & 2.

PC The student should select appropriate materials and equipment for assignment work and use them correctly.

LO2 IA Assignments 1 & 2.

PC The student should produce 2 finished designs which are:

(a) neatly presented;

(b) well finished;

(c) suitable for etching.

LO3 IA Assignments 1 & 2.

PC The student should produce 2 pieces of jewellery which:

(a) are well-formed and constructed;

(b) neatly soldered, if appropriate;

(c) demonstrate acceptable perception of shape and form.

LO4 IA Assignments 1 & 2.

PC The student should degrease metal effectively, using the correct procedure and materials.

LO5 IA Assignments 1 & 2.

PC The student should:

(a) apply acid resist effectively, using the correct method for each assignment;

(b) show acceptable skill in scratching designs on to metal;

(c) use acid appropriate to the metals(s) used;

(d) show acceptable skill in the etching of metal, accurately representing the original design.

LO6 IA Assignment 1 & 2.

PC The student should:

(a) remove all traces of acid resist;

(b) polish work to a good standard.

LO7 IA Observation checklist related to the work of the module.

PC The student should, throughout all module activities:

(a) wear all necessary safety clothing and equipment;

(b) behave in a manner appropriate to the working environment;

(c) use materials, tools and equipment safely.