

**-SQA-SCOTTISH QUALIFICATIONS AUTHORITY**

**Hanover House  
24 Douglas Street  
GLASGOW G2 7NG**

**NATIONAL CERTIFICATE MODULE DESCRIPTOR**

<b>-Module Number-</b>	<b>0067940</b>	<b>-Session-1986-87</b>
<b>-Superclass-</b>	<b>KH</b>	
<b>-Title-</b>	<b>GRAPHIC REPRODUCTION: INTRODUCTION</b>	
<b>-DESCRIPTION-</b>		
Type and Purpose	A <u>general</u> module applicable to commercial printing, publishing, and two-dimensional design.  This module is intended for students who require a basic understanding of graphic reproduction.	
Preferred Entry Level	No formal entry requirements.	
Learning Outcomes	The student should:  <ol style="list-style-type: none"><li>1. identify the characteristics of camera - ready copy and use a method of scaling originals;</li><li>2. know materials and equipment used for graphic reproduction and the basic stages of photographic processing;</li><li>3. produce a line negative from prepared art work;</li><li>4. know and apply the relevant methods and equipment to produce half-tone negatives;</li><li>5. prepare an assembly of text and line material for reproduction.</li><li>6. comply with the regulations, procedures and safe working practices specified for the activity areas;</li></ol>	

Content/  
Context

Corresponding to the Learning Outcomes:

1. characteristics of camera-ready copy for line and half-tone reproduction. Selection of different types of line original and continuous tone originals. Use of crop, bleed and register marks. Calculate scale of reproduction using simple formula or percentage calculator discs. Calculate reproduction proportions using simple formula or diagonal line method or calculations discs.

2. functions of the main parts of a process camera, camera set-up procedure.

A range of high contrast photographic materials, photographic processing, quality control.

3. from prepared artwork and Greyscale production of a line negative suitable for offset lithography, screen process or other plate making process, i.e. calculate reproduction scale and finished size, set up process camera and expose film, process film, assess finished negative, identify common faults and any remedial action required. Use of exposure calculator. Effects of enlargement and reduction.

4. contact screen half-tone techniques. Types of screen used. Use of reflection and transmission densitometers. Calibration tests required and use of greyscale in setting-up system for half-tone reproduction.

From prepared continuous tone original production of half-tone negative using proven half-tone system.

5. procedures and techniques, equipment and materials used in negative or positive film assembly. Hand assembly of text, line and/or half-tone films to conform to prepared layout.

Procedures in photographic contacting.

6. introduction to safety procedures relating to camera equipment and photographic processing chemicals and equipment. Hazards involved when using electrical equipment, light sources and photographic chemicals. Care and use of equipment. Correct handling and use of chemicals.

Suggested  
Learning and  
Teaching  
Approaches

Learning Outcome 3 could be taught through participative demonstrations and explanations of a selected range of materials and equipment used. These should be carried out in workshops/studios with related tutorials.

Learning Outcomes 1, 2 and 4 - 6 should be activity-based within studio/workshops with the member of staff acting as supervisor.

For most sections of this practical activity students should work individually.

Students' activities should be based on assignments of the type indicated below and the tutor should prepare precise briefs for each assignment.

Assignment

Students will participate in the production of a practical assignment which will include:

- a) a study of the characteristics of camera-ready copy;
- (b) scaling of originals;
- (c) photographic processing;
- (d) line and half-tone negative production;
- (e) quality control;
- (f) assembly of text and line matter.

Based on this assignment, each student will produce worksheets/illustrated log to outline a selected range of materials, equipment and procedures used for graphic reproduction.

Identification of faults, and safe working practices will be integral parts of this assignment.

Assessment  
Procedures

All Learning Outcomes must be validly assessed.

The student must be informed of the tasks which contribute to summative assessment. Any unsatisfactory aspects of performance should, if possible, be discussed with the student as and when they arise.

Acceptable performance in the module will be satisfactory achievement of the performance criteria specified for each learning outcome.

Where cutting scores are stated these are intended to be for guidance. The precise cutting score for a test will depend on the difficulty of the test and will have to be decided by the Tutor aided by the Assessor.

The following abbreviations are used below:

LO Learning Outcome  
IA Instrument of Assessment  
PC Performance Criteria

LO1

IA(1) Selection test.

PC The student selects photographic copy indicating the type of reproduction required for line or half-tone reproduction;

The cutting score will be 80%.

IA(2) Written/calculations exercise consisting of two problem type questions.

PC The student correctly calculates:

- (a) scale of reproduction;
- (b) finished reproduction proportions.

LO2

IA Objective test consisting of fifteen questions.

PC The student correctly identifies:

- (a) materials;
- (b) equipment;
- (c) stages of photographic processing.

The cutting score will be 70%.

LO3

IA Finished article.

PC The student correctly produces a line negative which:

- (a) complies with established 'Greyscale' standard;
- (b) has a quality comparable to an agreed exemplar.

LO4

IA(1) Finished article.

PC The student correctly produces a half-tone negative using relevant materials and equipment in which:

- (a) the film dot density is correct;
- (b) the quality is comparable to an agreed exemplar.

IA(2) Objective test consisting of fifteen questions.

PC The student correctly identifies:

- (a) reasons for using half-tone;
- (b) materials;
- (c) equipment;
- (d) image specifications.

The cutting score will be 70%.

LO5

IA Practical exercise.

PC The student produces a film assembly in which:

- (a) the film is cut accurately;
- (b) the assembly is square;
- (c) the assembled elements are according to layout;
- (d) the quality is comparable to an agreed exemplar.

LO6

IA Observation checklist used in conjunction with practical work in other Learning Outcomes (in which the following elements must be included).

PC The student:

- (a) wears all necessary safety clothing and equipment;
- (b) behaves in a manner appropriate to the work environment;
- (c) uses tools, chemicals and equipment safely.

06/11/94