-SQA-SCOTTISH QUALIFICATIONS AUTHORITY

Hanover House
24 Douglas Street
GLASGOW G2 7NG

NATIONAL CERTIFICATE MODULE DESCRIPTOR

-Module Number- **0061859** **-Session-1986-87**
-Superclass- **KE**

-Title- **PHOTOGRAPHY: SCIENTIFIC**

-DESCRIPTION-

Type and Purpose

A specialist module which enables the student to acquire a knowledge of a wide variety of specialised procedures and applied techniques used in scientific photography.

Preferred Entry Level

01850 Photography: Camera Techniques
01851 Photography: Monochrome Film Processing and Printing

Learning Outcomes

The student should:

1. know and use a range of accepted close-up lighting and photography techniques;

2. know and use a range of close-up attachments and accessories for photographic equipment;

3. know the reasons for using a standard scientific approach to photographic techniques.

Content/ Context

Corresponding to the Learning Outcomes:

1. a range of techniques such as: dark-field illumination, bright-field illumination, trans-illumination, reflected illumination, incident illumination, ratio of reproduction, and any other appropriate technique;

2. a range of attachments and accessories such as: microscope adapters, bellows, probe meters, external rings, and other appropriate attachments and accessories.

3. the need for recording the conditions under which a photograph is taken in order to ensure the procedure can be replicated: records should include lighting, equipment layout and materials used.

Suggested Learning and Teaching Approaches

The student should follow an activity based learning approach, seeking guidance at each stage.

Activities should be centred on assignments based on well defined briefs.

Each procedure should be explained and demonstrated, followed by supervised participation by the student.

Terminology should be presented in context throughout the module.

Equipment, processes and procedures which cannot be experienced should be reinforced by films, slides and, if possible, visits to commercial premises.

Exemplars should be available for the student to compare standards.

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.

The following abbreviations are used below:

LO Learning Outcome
IA Instrument of Assessment
PC Performance Criteria

LO1 IA Practical assignment. & 2

PC The student satisfactorily photographs a given set of subjects (two or three) to set of given magnifications:

(a) selecting appropriate close-up lighting and using appropriate photographic technique;

(b) selecting appropriate close-up attachments and accessories for equipment used;

(c) indicating the correct scale of magnification on each photograph.

LO3 IA Written report based on the above assignment.

PC The student should clearly record the conditions under which the photographs were taken, including details of the equipment layout, lighting and materials used and specify appropriate reasons for using a standard scientific approach.