

-SQA- SCOTTISH QUALIFICATIONS AUTHORITY

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

NATIONAL CERTIFICATE MODULE DESCRIPTOR

-Module Number- 1180120
-Superclass- SP

-Session-1990-91

-Title- BASIC CARE OF FISH

-DESCRIPTION-

Purpose This module is designed to enable the student to acquire a knowledge of the basic principles of stockmanship on which all fish husbandry is founded. The module may help students who have little or no experience with fish to gain confidence in handling and caring for stock. It may also help students to decide whether they have a vocation for fish care.

It is aimed at those starting a programme of National Certificate modules within the land based sector.

Preferred Entry Level No formal entry requirements

Outcomes The student should:

1. identify fish by their appearance;
2. state the function and anatomical position of the body systems;
3. feed and care for one type of fish;
4. handle one type of fish.

Assessment Procedures Acceptable performance in the module will be satisfactory achievement of all the Performance Criteria specified for each Outcome.

The following abbreviations are used below:

PC Performance Criteria
IA Instrument of Assessment

OUTCOME 1 IDENTIFY FISH BY THEIR APPEARANCE

- PCs
- (a) The identification of breeds, crosses and classes of fish is correct.
 - (b) The identification of individual fish by their natural and/or man-made markings is correct.
 - (c) The records of basic fish data are complete.

IA Short Answer Questions

The student will be presented with short answer questions to test knowledge and skills required to identify fish by their appearance.

The exercise will consist of 23 short answer questions allocated as follows:

- | | | |
|-------|---------------------------|------------------|
| (i) | performance criterion (a) | 15 |
| (ii) | performance criterion (b) | 5 |
| (iii) | performance criterion (c) | 3 pieces of data |

Satisfactory achievement of the Outcome will be based on the student producing 18 correct responses allocated as follows:

- | | |
|-------|--------------|
| (i) | 12 out of 15 |
| (ii) | 3 out of 5 |
| (iii) | 3 out of 3 |

OUTCOME 2 STATE THE FUNCTION AND ANATOMICAL POSITION OF THE BODY SYSTEMS

- PCs
- (a) The identification of position of external anatomical features is correct.
 - (b) The identification of position of internal anatomical features is correct.
 - (c) The statement of the role of body organs is accurate.

IA Short Answer Questions

The student will be presented with short answer questions to test the knowledge required to state the function and anatomical position of the body systems.

The exercise will consist of 30 short answer questions allocated as follows:

- | | |
|-------|--|
| (i) | performance criterion (a) 10 questions - with the aid of a diagram |
| (ii) | performance criterion (b) 10 questions - with the aid of a diagram |
| (iii) | performance criterion (c) 10 questions |

Satisfactory achievement of the Outcome will be based on the student producing 21 correct responses allocated as follows:

- (i) 7 out of 10
- (ii) 7 out of 10
- (iii) 7 out of 10

OUTCOME 3**FEED AND CARE FOR ONE TYPE OF FISH**

PCs

- (a) The counting of fish is accurate.
- (b) The identification of common fish feeds is correct.
- (c) The provision of food for fish is in accordance with instructions.
- (d) The maintenance of clean and safe environmental conditions are in accordance with instructions.
- (e) The identification of normal fish behaviour is correct in terms of activity within a group and individual posture and movement.

IA Practical Exercise

The student will be presented with a practical exercise which tests the application of knowledge and skills required to care for one type of fish.

The exercise will centre on a specific farm situation and will cover the following areas:

- (i) counting of fish
- (ii) identification of 7/10 fish feeds
- (iii) feeding a group of fish
- (iv) maintaining a clean and safe environment for a group of fish
- (v) identification of normal fish behaviour.

This assessment should be carried out with the aid of an observation checklist.

Satisfactory achievement of Outcome will be based on all the Performance Criteria being met.

OUTCOME 4**HANDLE ONE TYPE OF FISH**

PCs

- (a) The preparation of handling facilities is complete and correct.
- (b) The movement of fish is humane and safe.
- (c) The handling of fish is effective with minimum of stress.

IA Practical Exercise

The student will be presented with a practical exercise which tests the knowledge and skills required to handle one type of fish.

The exercise will centre on a given situation and will cover the following areas:

- (i) preparation of handling facilities
- (ii) moving fish
- (iii) handling of fish

The assessment should be carried out with the aid of an observation checklist.

Satisfactory achievement of the Outcome will be based on all the Performance Criteria being met.

**The following sections of the descriptor are offered as guidance.
They are not mandatory.**

CONTENT/CONTEXT

Safety regulations and safe working practices and procedures should be adhered to at all times.

The type of fish used in this module should reflect the students' interests or background. The normal code of practice and legal constraints on young people working with fish must be observed.

The knowledge content of all outcomes should be related to a practical end use wherever possible, e.g. in ensuring that correct and adequate rations are fed to fish.

Corresponding to the Outcomes 1-4:

1. Identification of fish by their appearance, species should include those appropriate to working area. Man made markings should be known by sight.
2. Main body systems of fish should be covered in sufficient depth to allow the student to identify principal external and internal features. The function of the systems is more important than detailed anatomy and physiology of each system.

The number of species covered will depend on the student's interests, background and future area of study.

3. Students should care for a group of fish. The emphasis should be on correctly following clear instructions; feeding; environmental conditions clean and safe; checking fish behaviour is normal; procedures in case of abnormality.
 4. The student should handle stock in an appropriate manner for grading, sample weighing and/or relocation.
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SUGGESTED LEARNING AND TEACHING APPROACHES

Relating to the Outcomes.

1. Should involve the use of live fish, slides, posters, etc.

Man made markings if appropriate can be demonstrated by viewing fish and/or slides. Demonstrations may be made of the different techniques.

Records can be made by students simply observing a group of fish on one or more occasions and completing the relevant data. If appropriate tasks are being carried out by someone other than the students the data may be recorded.

2. Live fish should be used where possible to identify external anatomical features.

Use can also be made of models, diagrams and slides.

3. Practical exercise. Clear and concise instructions should be given. Students may be involved in day to day caring of a group of fish or may simply be instructed to look after a group of fish on one occasion.

Feeds, ideally should be seen on the unit at the time of feeding or in store.

4. Students should be given a group of fish to handle and/or relocate. Use should be made of an observation checklist.

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