

Component Specification NFQ Level 6

Animal Science and Health 6N5565

1. Component Details

Title	Animal Science and Health		
Teideal as Gaeilge	Eolaíocht agus Sláinte Ainmhithe		
Award Type	Minor		
Code	6N5565		
Level	6		
Credit Value	15		
Purpose	The purpose of this award is to equip the learner with the knowledge, skill and competence to develop an understanding of the scientific fields of study involved directly and indirectly in the care, husbandry and management of domestic and captive animals.		
Learning Outcomes	Learners will be able to:		
	1 Demonstrate a broad knowledge on the anatomical and physiological adaptations of a variety of species and relate that knowledge to the housing, handling and general husbandry of the animals		
	2 Evaluate the biochemical properties of nutrients, the effect of chemical compounds at cellular level, and the requirements of some species for specific nutritional compounds		
	3 Demonstrate an understanding of parasitology through the identification of internal and external parasites common to mammalian, avarian, reptilian and aquatic species		

- 4 Research the process of DNA synthesis relating to the transfer of genetic traits to include understanding of hereditary disease and conditions and apply knowledge of anatomical variations within species to predict related physiological problems
- 5 Explain the immunological processes that occur as a result of the different types of immunisations available as well as the optimal time for administration of such immunizations to maximise immunological defense
- 6 Formulate an experiment to test physiological responses of one or more of the main mammalian systems
- 7 Investigate a variety of mammalian cell and tissue samples with the use of a microscope
- 8 Manage themselves independently whilst working effectively and efficiently in the laboratory maintaining aseptic techniques and the correct use of a range of equipment
- 9 Give guidance to pet owners in relation to recognition, prevention and management of animal conditions, and suggest vaccination programs for a variety of domestic species and captive wild animals
- 10 Act in a mature responsible manner and at all times observe laboratory codes of conduct and abide by given guidelines so to work maintaining own health and safety and that of others.

Assessment

General Information

All assessment should be planned in accordance with the programme assessment strategy developed as part of the programme submission for validation. See **Policies and Criteria for Validation of Programmes.** Assessment should be undertaken consistently and reflect current assessment guidelines. See <u>www.qqi.ie.</u>

All FET assessment is criterion referenced. Successful achievement of the award is based on learners attaining the required standards of knowledge, skill or competence consistent with the **minimum intended programme learning outcomes**.

The techniques set out below are considered the optimum approach to assessment for this component. In exceptional circumstances providers may identify alternative assessment techniques through the provider's application for programme

	validation which are reliable and appropriate to their context.	d valid but which are more
	Assessment of a number of cor across programmes for delivery outcomes of each minor award	, provided that the learning
	Group or team work may form p each learner's achievement is s	part of the assessment, provided separately assessed.
	of their application for program	bmit an assessment plan as part me validation. Assessment Plans to scheduling and integration of validation guidelines at
Assessment Techniques	In order to demonstrate that they have reached the standards of knowledge, skill and competence identified in all the learning outcomes, learners are required to complete the assessment(s) below.	
	The assessor is responsible for instruments (e.g. project and as papers), assessment criteria an the techniques identified below requirements.	ssignment briefs, examination nd mark sheets, consistent with
	outcome to its associated asses outcomes must be assessed a	ire providers to map each learning ssment technique. All learning nd achieved in accordance with le learning outcomes set out in
	Examination - Theory	40%
	Project	30%
	Skills Demonstration	30%
Description		
	Examination - Theory	

An examination provides a means of assessing a learner's ability to recall and apply knowledge, skills and understanding within a set period of time and under clearly specified conditions.

A theory-based examination assesses the ability to recall, apply and understand specific theory and knowledge.

Project

A project is a response to a brief devised by the assessor. A project is		
usually carried out over an extended period of time. Projects may		
involve research, require investigation of a topic, issue or problem or		
may involve process such as a design task, a performance or practical		
activity or production of an artefact or event.		

Skills Demonstration

A skills demonstration is used to assess a wide range of practical based learning outcomes including practical skills and knowledge. A skills demonstration will require the learner to complete a task or series of tasks that demonstrate a range of skills.

Recognition of Prior Learning (RPL)	To support the development and implementation of RPL with regard to access, granting credit/exemptions and achievement of awards/parts of awards, providers should refer to QQI's Statutory Guidelines for Quality Assurance , the Policies and Criteria for Validation of Programmes and the Principles and Operational Guidelines for the Recognition of Prior Learning in Further and Higher Education and Training available at <u>www.qqi.ie</u>	
Grading	Pass	50% - 64%
	Merit	65% - 79%
	Distinction	80% - 100%
Specific Validation Requirements	There are no specific validation requirements	
Supporting Documentation	None	
Access	To access programmes leading to this award the learner should have reached the standards of knowledge, skill and competence associated with the preceding level of the National Framework of Qualifications. This may have been achieved through a formal qualification or through relevant life and work experience.	
Transfer	Successful completion of this component award enables the learner to transfer to programmes leading to other certificates where this component is a mandatory or an elective requirement.	

2. FET Award Standards

QQI award standards are determined within the National Framework of Qualifications (NFQ), <u>http://www.nfq-qqi.com</u>. QQI determines standards for the education and training awards that it makes itself and that are made by providers to whom it has delegated authority to make an award. Providers offering programmes leading to QQI awards **must** have their programme(s) validated in accordance with current validation policy (see <u>www.qqi.ie</u>).

Award standards are designed to be consistent with the NFQ's award classes i.e. major, special purpose, supplemental and minor awards. They are expressed in terms of **learning outcomes** i.e. concise statements of what the learner is expected to know or be able to do in order to achieve a particular award. Learning outcomes for FET awards are contained within the associated specifications:

AWARD CLASS	STANDARDS	AWARDS
Major Award	Certificate Specification	Certificate (Levels 1 to 5) Advanced Certificate (Level 6)
Supplemental Award	Supplemental Specification	Supplemental Certificate (Level 3 to 6)
Special Purpose	Specific Purpose Specification	Specific Purpose Certificate (Levels 3 to 6)
Minor Award	Component Specification	Component Certificate (Levels 1 to 6)

Award standards are thresholds, they describe standards of knowledge, skill or competence to be acquired, and where appropriate, demonstrated, by a learner before an award may be made.

Award standards will be reviewed from time to time as necessary. Minor changes may be made by the QQI executive outside the review cycle where necessary. Changes to standards are published on QQI's website. Providers with validated programmes and providers with delegated authority to make awards are responsible for monitoring relevant standards and making necessary responses to changes.

3. FET Credit

Every FET certificate and component specification includes an FET credit value (Table 1). FET credit is quantified in multiples of 5 FET credits (up to 50 hours of learner effort). Learner effort is based on the time taken by typical learners at the level of the award to achieve the learning outcomes for the award. It includes all learning time involved including: guided learning hours, self-directed learning and assessment.

Table 1: FET Credit Values

NFQ Level	Major Awards Credit Values	Default Credit Values Minor Awards	Other Permitted Minor Award Credit Values	Special Purpose and Supplemental Award Credit Value Ranges
1	20	5	10	
2	30	5	10	
3	60	10	5,20	>5 and<60
4	90	10	5,15,20	>5 and<90
5	120	15	5,10,30	>5 and <120

6	120	15	5,10,30	>5 and <120
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Guide to Level

Learning outcomes at this level include a comprehensive range of skills which may be vocationally-specific and/or of a general supervisory nature, and require detailed theoretical understanding. The outcomes also provide for a particular focus on learning skills. The outcomes relate to working in a generally autonomous way to assume design and/or management and/or administrative responsibilities. Occupations at this level would include higher craft, junior technician and supervisor.

Strand	Sub-strand	Nature of learning		
Knowledge	Breadth	Specialised knowledge of a broad area		
	Kind	Some theoretical concepts and abstract thinking, with significant depth in some areas		
Know How & Skill	Range	Demonstrate a comprehensive range of specialised skills and tools		
	Selectivity	Formulate responses to well defined abstract problems		
Competence	Context	Utilise diagnostic and creative skills in a range of functions in a wide variety of contexts		
	Role	Exercise substantial personal autonomy and often take responsibility for the work of others and/or for the allocation of resources; form and function within, multiple and complex heterogeneous groups.		
	Learning to Learn	Learn to take responsibility for own learning within a managed environment.		
	Insight	Express an internalised, personal world view, reflecting engagement with others.		

Extract from 'Determinations for the Outline National Framework of Qualifications': NQAI