

Component Specification

Environmental Studies

NFQ Level 5

5N1442

1. Component Details

Title	Environmental Studies
Teideal as Gaeilge	Eolas Imshaoil
Award Class	Minor
Code	5N1442
Level	5
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 key practices of environmental management and the processes involved in their implementation.
Learning Outcomes	Learners will be able to: <ol style="list-style-type: none">1 Examine what “resources” means to include differentiating between renewable, potentially renewable and non-renewable resources2 Examine material and non-material resources to include specific examples of the different types of resources3 Explore Malthusian theory of population and environment its adaptation for the twenty-first century4 Explore the concepts of “sustainable yield” and “environmental degradation”

- 5 Examine the “tragedy of the commons” and possible solutions to the problem
- 6 Examine the importance of renewable resources to include the possibilities regarding their future use
- 7 Explore the functioning of the earth as a series of inter-related systems
- 8 Examine the relationship between population growth and environmental degradation
- 9 Examine what is meant by lesser developed country (LDC) and more developed country (MDC) to include the main characteristics
- 10 Explore the concept of sustainable development and examine how it has developed
- 11 Examine the key principles of environmental ethics
- 12 Explain the term biodiversity to include some of the main human activities that disrupt biodiversity, both globally and locally
- 13 Investigate the main national, European and international environmental agreements and what they aim to achieve
- 14 Examine a range of national environmental issues including eutrophication of inland waters, waste, the urban environment, transport, climate change, greenhouse gases and the protection of natural resources
- 15 Comment on the role of the Environment Protection Agency (EPA) in environmental management in Ireland
- 16 Examine accredited environmental management systems to include ISO 14001 and the Eco-Management and Audit Scheme (EMAS)
- 17 Analyse the current environmental concerns with water to include some possible solutions to the problem of water as a depleting resource
- 18 Examine the greenhouse effect as it occurs naturally in the atmosphere including the main greenhouse gases, the changes to their concentrations in the atmosphere and the anthropogenic contribution to that change
- 19 Identify main characteristics of Agenda 21 to include its implementation Ireland

- 20 Analyse the relationship between population and environment in LDCs and MDCs
- 21 Discuss the relationship between population growth and environmental degradation
- 22 Evaluate the main consequences of global warming arising from the enhanced greenhouse effect to include the national, European and international protocol plans to address these issues
- 23 Evaluate the key European Union (EU) regulations on biodiversity
- 24 Evaluate the characteristics of Environmental Impact Assessment (EIA) to include the steps that have to be taken in the EIA process
- 25 Evaluate the Strategic Environmental Assessment (SEA) to include its role in addressing some of the weaknesses of EIA.

Assessment

General Information

Details of FET assessment requirements are set out in [Assessment Guidelines for Providers](#).

All FET assessment is criterion referenced. Successful achievement of the award is based on learners attaining the required standards of knowledge, skill or competence.

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 **valid** but which are more appropriate to their context.

Assessment of a number of components may be integrated across programmes for delivery, provided that the learning outcomes of each minor award are assessed.

Group or team work may form part of the assessment, provided each learner's achievement is separately assessed.

All providers are required to submit an assessment plan as part of their application for programme validation. Assessment Plans will include information relating to scheduling and integration of assessment. See current FET validation guidelines at www.qqi.ie.

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 devising assessment instruments (e.g. project and assignment briefs, examination papers), assessment criteria and mark sheets, consistent with the techniques identified below and FETAC's assessment requirements.

Programme validation will require providers to map each learning outcome to its associated assessment technique. See current FET validation guidelines at www.qqi.ie.

All learning outcomes **must** be assessed and achieved

Project	60%
Examination - Theory	40%

Description

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.

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.

Recognition of Prior Learning (RPL)

Learners may be assessed on the basis of their prior knowledge and experience. Providers must be specifically quality assured to assess learners by this means. To do so they must complete B10, see Provider's Quality Assurance Guidelines and be included on the Register of RPL approved providers. See RPL Guidelines at www.fetac.ie for further information and registration details.

Grading

Pass	50% - 64%
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Merit	65% - 79%
Distinction	80% - 100%

Specific Validation Requirements

There are no specific validation requirements for this award

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), <http://www.nfq-qqi.com>. 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 www.qqi.ie).

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

Guide to Level

Learning outcomes at this level include a broad range of skills that require some theoretical understanding. The outcomes may relate to engaging in a specific activity, with the capacity to use the instruments and techniques relating to an occupation. They are associated with work being undertaken independently, subject to general direction.

Strand	Sub-strand	Nature of learning
Knowledge	Breadth	Broad range of knowledge
	Kind	Some theoretical concepts and abstract thinking, with significant depth in some areas.
Know How & Skill	Range	Demonstrate a broad range of specialised skills and tools
	Selectivity	Evaluate and use information to plan and develop investigative strategies and to determine solutions to varied unfamiliar problems
Competence	Context	Act in a range of varied and specific contexts, taking responsibility for the nature and quality of outputs; identify and apply skill and knowledge to a wide variety of contexts
	Role	Exercise some initiative and independence in carrying out defined activities; join and function within multiple, complex and heterogeneous groups
	Learning to Learn	Learn to take responsibility for own learning within a managed environment

Insight

Assume full responsibility for consistency of self- understanding
and behaviour

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