



**QQI**

Quality and Qualifications Ireland  
Dearbhú Cáilíochta agus Cáilíochtaí Éireann

## Component Specification NFQ Level 5

### Anatomy and Physiology 5N0749

#### 1. Component Details

<b>Title</b>	Anatomy and Physiology
<b>Teideal as Gaeilge</b>	Anatamaíocht agus Fiseolaíocht
<b>Award Type</b>	Minor
<b>Code</b>	5N0749
<b>Level</b>	5
<b>Credit Value</b>	15
<b>Purpose</b>	The purpose of this award is to equip the learner with the knowledge, skill and competence to understand the structure and function of the human body and the interrelationship between its systems.
<b>Learning Outcomes</b>	Learners will be able to:  <ol style="list-style-type: none"><li>1 Differentiate between Anatomy and Physiology</li><li>2 Describe the structure and function of a typical animal cell and its organelles</li><li>3 Classify tissues into the four main groups; epithelial, connective, muscle and nervous tissue, identifying the different tissues within each classification</li><li>4 Differentiate between benign and malignant tumours</li><li>5 Outline the composition of bone, including the functions of the skeleton, the main bones of the appendicular and axial skeleton and the structure of a typical long bone</li></ol>

- 6 Identify the major categories and functions of joints, differentiating between the four types of synovial joints
- 7 Identify the main muscles of the body, differentiating between the three types of muscle and the interconnections between the skeletal and muscular systems in body movement
- 8 Outline the structure and function of blood and its role in maintaining immunity both active and passive
- 9 Describe the function of the heart including, the structure of arteries, veins and capillaries, the cardiac cycle and the flow of blood through the main blood vessels and blood pressure
- 10 Identify the component parts of the lymphatic system, its functions and its relationship with the blood system
- 11 Identify the parts of the digestive system, including its associated organs and their function, the parts of the stomach and the functions of each of the four layers of the alimentary canal
- 12 Outline the composition of protein, fats and carbohydrate and the process of absorption and the assimilation and metabolism of the breakdown products of digestion
- 13 Describe the structure and identify the parts of the respiratory system
- 14 Describe the role of muscles, blood and the nervous system in the breathing process
- 15 Explain the process of gas exchange in the alveoli
- 16 Describe the male and female reproductive systems including; the function of each reproductive organ and the role of hormones in the reproductive process
- 17 Explain the terms insemination, fertilisation and implantation and the development of the embryo in the first trimester
- 18 Explain the function of the main parts of the brain and how a nerve impulse travels along the nervous system
- 19 Differentiate between the Central, Peripheral and Autonomic Nervous Systems, explaining, how reflex action works

- 20 Differentiate between endocrine and exocrine glands
- 21 Explain the role of hormones in metabolic processes, including the effects of oversecretion and or undersecretion of insulin, thyrosine and growth hormone and the difference between a nervous system and a hormonal system
- 22 Explain the urinary system, outlining the gross and microscopic (nephron) structure and function of the kidney
- 23 Outline the structure of the skin, including its key parts, main functions and the relationship between the skin, the circulatory system and the nervous system
- 24 Reflect on the role of the human body and the interrelationship between the systems of the body.

## 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 [www.qqi.ie](http://www.qqi.ie).

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 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](http://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 QQI's assessment requirements.

Programme validation will require providers to map each learning outcome to its associated assessment technique. All learning outcomes **must** be assessed and achieved in accordance with the **minimum intended module learning outcomes** set out in the validated programme.

Assignment	40%
Examination - Theory	60%

## Description

### Assignment

*An assignment is an exercise carried out in response to a brief with specific guidelines as to what should be included. An assignment is usually of short duration and may be carried out over a specified period of time.*

### 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)

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 [www.qqi.ie](http://www.qqi.ie)

<b>Grading</b>	Pass	50% - 64%
	Merit	65% - 79%
	Distinction	80% - 100%
<b>Specific Validation Requirements</b>	There are no specific validation requirements for this award	
<b>Supporting Documentation</b>	None	
<b>Access</b>	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.	
<b>Transfer</b>	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](http://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. Some underpinning theory
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*

