

Component Specification

Music Technology

NFQ Level 5

5N1640

1. Component Details

Title	Music Technology		
Teideal as Gaeilge	Teicneolaíocht an Cheoil		
Award Class	Minor		
Code	5N1640		
Level	5		
Credit Value	15		
Purpose	The purpose of this award is to equip the learner with the knowledge and skill and competence in music technology, combining practical application and appreciation.		
Learning Outcomes	Learners will be able to:		
	1	Explore the theory of digital audio and examine standards of conversion and storage	
	2	Examine the different messages outlined in the midi specification and outline their applications within music production	
	3	Analyse the common features of a digital audio workstation and how they are applied to a music production project	
	4	Research common terms related to music technology systems	
	5	Import audio files into digital editing application from source	

	6	Demonstrate digital editing practices comprising markers, cut, copy, paste, mix paste, trim, crop and move
	7	Evaluate fx plugins parameters including, reverb, delay, equalisation, pitch shift, distortion, dynamics and apply processing
	8	Output audio files in a variety of formats including uncompressed audio and lossless audio formats
	9	Configure audio and midi sequencers for new projects and set sample rate and bit resolution for the audio interface hardware
	10	Prepare sampling and synthesis instrument devices to include development and editing
	11	Produce a piece of multi channel music using a digital audio workstation, utilisiing sequencing tools to improve arrangement, timing, dynamics and balance
	12	Output master mix-down files in a variety of formats including uncompressed audio and compressed audio formats.
Assessment		
General Information		tails of FET assessment requirements are set out in sessment Guidelines for Providers.
	ach	FET assessment is criterion referenced. Successful nievement of the award is based on learners attaining the uired standards of knowledge, skill or competence.
	app circ tec vali	e techniques set out below are considered the optimum broach to assessment for this component. In exceptional cumstances providers may identify alternative assessment hniques through the provider's application for programme idation which are reliable and valid but which are more propriate to their context.
	acr	sessment of a number of components may be integrated oss programmes for delivery, provided that the learning comes of each minor award are assessed.
		oup or team work may form part of the assessment, provided the learner's achievement is separately assessed.
	of t	providers are required to submit an assessment plan as part heir application for programme validation. Assessment Plans include information relating to scheduling and integration of

assessment. See current FET validation guidelines at <u>www.qqi.ie</u>.

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 <u>www.qqi.ie</u>.

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 Merit Distinction	50% - 64% 65% - 79% 80% - 100%
Specific Validation Requirements	 Stereo digital Music and sou 	t have the following in place: audio editing software und technology with digital audio workstation sequencing capabilities
Supporting Documentation	practical guide Tools 2 ISBN-10: 02 3 ISBN-13: 97 4. Sound Synthe 5 ISBN-10: 02 6 ISBN-10: 02 6 ISBN-13: 97 7. http://audacity. digital audio ed	78-0240519609 sis and Sampling (Music Technology) 240521056 78-0240521053 .sourceforge.net/ - free open source multi track diting software egardenmusic.com/ - free open source audio/
Access	have reached the associated with th Qualifications. Thi	mmes leading to this award the learner should standards of knowledge, skill and competence e preceding level of the National Framework of s may have been achieved through a formal ough relevant life and work experience.
Transfer	learner to transfer	etion of this component award enables the to programmes leading to other certificates nent 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

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
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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
Role	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