

# **Component Specification**

## **Forestry Forwarder Operations**

## NFQ Level 5

## 5N3413

# 1. Component Details

Title	Forestry Forwarder Operations	
Teideal as Gaeilge	Oibríochtaí Seoltóra Foraoiseachta	
Award Class	Minor	
Code	5N3413	
Level	5	
Credit Value	15	
Purpose	The purpose of this award is to equip the learner with the knowledge, skill and competence to operate and maintain a forwarder safely and in accordance with industry best practice.	
Learning Outcomes		Learners will be able to:
	1	Explain the principles of internal combustion engines, vehicle electrical systems and hydraulic systems, including petrol diesel engines, 12 and 24 volt electrical systems and hydraulic system components and controls
	2	Indicate environmental best practice, relevant legislation, and operational best practice in harvesting operations including roles and responsibilities of forwarder and harvester operators, silvicultural, environmental and economic practices
	3	Describe health and safety legislation and health and safety guidelines with specific reference to harvesting operations

- 4 Interpret plans and communicate effectively to include, forest plans, harvesting plans, interpret and implement instructions, and use technology to communicate with other supply chain operators, managers, timber purchasers and forest owners
- 5 Interpret logging specifications
- 6 Carry out risk assessment to include pre-operation, continual monitoring during operation and post operation assessment
- 7 Carryout service inspections on forwarder to include daily and scheduled inspections as per manufacturers instructions
- 8 Prepare a forwarder for work to include programming forwarder computer to optimise output, set up required communications technologies and configures forwarder to optimise output
- 9 Operate a forwarder in an efficient manner in thinnings and clearfell sites.
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- 2 Indicate environmental best practice, relevant legislation, and operational best practice in harvesting operations including roles and responsibilities of forwarder and harvester operators, silvicultural, environmental and economic practices
- 3 Describe health and safety legislation and health and safety guidelines with specific reference to harvesting operations
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	8	Prepare a forwarder for work to include programming forwarder computer to optimise output, set up required communications technologies and configures forwarder to optimise output
	9	Operate a forwarder in an efficient manner in thinnings and clearfell sites.
Assessment		
General Information		ails of FET assessment requirements are set out in essment 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.	
	app circu tech valio	techniques set out below are considered the optimum roach to assessment for this component. In exceptional umstances providers may identify alternative assessment iniques through the provider's application for programme dation which are <b>reliable</b> and <b>valid</b> but which are more ropriate to their context.
	acro	essment of a number of components may be integrated oss programmes for delivery, provided that the learning comes of each minor award are assessed.
		up or team work may form part of the assessment, provided h learner's achievement is separately assessed.
	of th will asse	providers are required to submit an assessment plan as part neir application for programme validation. Assessment Plans include information relating to scheduling and integration of essment. See current FET validation guidelines at v.qqi.ie.
Assessment Techniques	knov	rder to demonstrate that they have reached the standards of wledge, skill and competence identified in all the learning comes, learners are required to complete the assessment(s) w.
	instr pap the t	assessor is responsible for devising assessment ruments (e.g. project and assignment briefs, examination ers), assessment criteria and mark sheets, consistent with techniques identified below and FETAC's assessment uirements.

	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> .		
	re i validation guidelines at <u>www.qql.le</u> .		
	All learning outcomes <b>must</b> be assessed and achieved		
	Skills Demonstration	60%	
	Examination - Theory	20%	
	Examination - Interview Style	20%	
Description			
	Skills Demonstration		
	based learning outcomes includ	assess a wide range of practical ing practical skills and knowledge. A the learner to complete a task or series ge of skills.	
	The assessor will devise a skills demonstration to assess the learner in learning outcomes 6-9		
	Examination - Theory		
	-	ns of assessing a learner's ability to Is and understanding within a set period ed conditions.	
	A theory-based examination ass understand specific theory and I	resses the ability to recall, apply and knowledge.	
		en examination to assess the learner¿s edge, skills and understanding of	
	Examination - Interview Style		
	•	ns of assessing a learner's ability to Is and understanding within a set period ed conditions.	
	An interview style examination a verbal questioning, one-to-one c	essesses assessing learning through or in a group.	
	The assessor will devise an inte learner¿s ability to recall and ap understanding of learning outcom		
Recognition of Prior Learning (RPL)	Learners may be assessed on the and experience. Providers musi- to assess learners by this means B10, see Provider's Quality Assu- included on the Register of RPL	t be specifically quality assured s. To do so they must complete urance Guidelines and be	

Guidelines at www.fetac.ie for further information and registration details.

Grading	Pass Merit Distinction	50% - 64% 65% - 79% 80% - 100%	
Specific Validation Requirements	There are no spec	cific 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	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)

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 2 3 4	20 30 60 90	5 5 10 10	10 10 5,20 5,15,20	>5 and<60 >5 and<90
5 6	120 120	15 15	5,10,30 5,10,30	>5 and <120 >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 &	Range	Demonstrate a broad range of specialised skills and tools
Skill S	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