

## Component Specification NFQ Level TBC

## Hazardous Materials .

## 1. Component Details

Title	Hazardous Materials		
Teideal as Gaeilge	ТВС		
Award Type	Minor		
Code	ТВС		
Level	6		
Credit Value	5 Credits		
Purpose	The purpose of this award is to equip the learner with the relevant knowledge, skill and competence to effectively and safely operate at a hazardous materials incident, as a member of a fire service team, cognisant of one's own safety, the safety of their team and the public.		
Learning Outcomes	Learners will be able to:		
	1 Explain the principles and procedures for working at hazardous material incidents.		
	2 Appraise the physical properties of materials and interpret their relevance at hazardous material incidents.		
	3 Explain the methods and safety procedures relating to operating at a range of incidents involving hazardous materials including a transportation incident.		
	4 Identify a hazardous material and retrieve relevant information from available sources.		

- 5 Don and doff chemical protective clothing.
- 6 Wear chemical protective clothing in accordance with approved procedures in managing a hazardous materials incident.
- 7 Establish a safe working environment, including decontamination area and appropriate cordons.
- 8 Apply appropriate decontamination techniques and procedures.
- 9 Use initiative in utilising the appropriate techniques and tactics in the risk area, while wearing chemical protective clothing.
- 10 Implement best safety and professional practice in responding to a range of operational incidents.
- 11 Develop an understanding of the need to review and reflect on operational practice and use this to inform future performance and professional development.

## 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 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 current FET validation guidelines	g and integration of assessment. See s at www.qqi.ie.	
Assessment Techniques	In order to demonstrate that they knowledge, skill and competence outcomes, learners are required		
	project and assignment briefs, ex	ent with the techniques identified	
	outcome to its associated assess	d achieved in accordance with the	
	Examination - Theory	30%	
	Skills Demonstration	70%	
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 ass understand specific theory and k	esses the ability to recall, apply and nowledge.	
$\Gamma$	The assessor will devise a theory outcomes 1-4 inclusive.	y examination covering learning	
	This assessment must be passe	d in order to achieve the award.	
	Skills Demonstration		
	based learning outcomes includi	assess a wide range of practical ng practical skills and knowledge. A he learner to complete a task or series	

The assessor will devise one or more skills demonstrations covering learning outcomes 4-11 inclusive.

Assessing whether a learner does or does not achieve competence is a challenge for training in hazardous materials. A learner who

of tasks that demonstrate a range of skills.

	themselves, their c are entrusted to se reaction in the risk	competence in a task is potentially a danger to colleagues and those members of the public they erve. A single serious event such as a panic area, when performing a task during a skills essment, must be carefully considered in light of afety implications.	
	candidate will be d available marks in	s competency based, and is on a pass/fail basis. The leemed to have failed if they have not achieved all these safety critical tasks. Assessment will be event of a failure in any of the tasks set.	
	the areas listed: Scene safe Information Don and do Decontamin	uired to complete a skill demonstration in each of ety arrangements – 15% o retrieval – 15% off chemical protective clothing – 15% nation arrangements – 10% e effects of the incident – 15%	
	This assessment n	nust be passed in order to achieve the award.	
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	<ul> <li>safety regulati</li> <li>2. Access to fire learners have practice and a</li> <li>Suitably s presentati</li> <li>Suitably s operationa</li> <li>Suitably s operationa</li> <li>Suitably s training extractional</li> </ul>	aining facility in compliance with current health and ons service facilities of sufficient scale to ensure that all access to the vehicles and equipment required to ichieve learning outcomes to include: ized training rooms to accommodate classroom ions ized training space to provide briefs and debriefs in al gear and storage of breathing apparatus (BA) sets ized welfare, changing and drying facilities for al gear ized training areas to accommodate the various xercises – this must include the ability to	
	practice/d	emonstrate all the relevant layouts as per the	

	<ul> <li>Standard Operational Guidance, including decontamination requirements</li> <li>A standard Class B pumping appliance with all associated equipment, including hose, ladders, portable pumps and main pumps</li> <li>All associated hazardous material equipment, including self-contained BA sets, BA cylinders (200 or 300 bar), suitable BA cylinder filling facilities, BA control boards, entry control items, gas tight suits, associated decontamination equipment and connections</li> <li>The maximum ratio should be 1 trainer to 6 learners.</li> <li>Stated policies and procedures by the provider to deal with potential risks that may be encountered.</li> </ul>
Supporting Documentation	<ol> <li>Current relevant legislation</li> <li>Standard Operational Guidance Documentation – National Directorate for Fire and Emergency Management</li> <li>Chemdata</li> <li>Dangerous Goods Emergency Action Code List - National Chemical Emergency Centre UK</li> <li>Emergency Response Guidebook - Guidebook for First Responders During the Initial Phase of a Dangerous Goods/ Hazardous Materials Incident. (U.S. Department of Transportation)</li> <li>Health and Safety Authority statutory regulations, codes of practice and guidelines</li> <li>Manufacturers' vehicle and equipment operating instructions</li> </ol>
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. In addition, learners will be required to successfully complete a physical test and medical examination and must have achieved the Firefighting Skills and the Using Breathing Apparatus awards.
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.