Modification history

Release	Comments
Release 1	This version released with SFI Seafood Industry Training Package Version 2.0.

SFIEMS5X3	Conduct an aquaculture environmental audit	
Application	This unit of competency describes the skills and knowledge required to contribute to the development and implementation of aquaculture plans and strategies by conducting an aquaculture environmental audit that incorporates ecological issues, waste management and the management of marine stock.	
	This unit applies to individuals who have specialised aquaculture environmental knowledge and follow assigned instructions, liaise with clients and effectively identify and assess aquacultural practices and how they impact on the aquaculture environment.	
	No licensing, legislative or certification requirements apply to this unit at the time of publication.	
Use Prerequisite Unit	Nil	
Unit Sector	Environmental Management Systems	

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Prepare for aquaculture environmental audit	 1.1 Review environmental audit criteria to determine job requirements, including standards relating to the health of marine species, organic waste release, energy usage, groundwater, interactions with wildlife and other species and the health of coastal ecosystems 1.2 Access technology, and equipment, including personal protective equipment (PPE) required to conduct audit 1.3 Determine site access requirements to conduct audit and make appropriate arrangements 1.4 Assess prospective audit site for hazards and make safety arrangements in accordance with work health and safety standards and workplace procedures 1.5 Advise specified personnel of audit requirements and processes
2. Carry out aquaculture	2.1 Commence aquaculture environmental audit at the specified site, as
environmental audit	planned and in accordance with work health and safety standards and environmental codes 2.2 Consult with relevant personnel and check physical and workplace records for all aspects specified in the audit criteria
3. Record aquaculture environmental audit findings	 3.1 Compile audit data and provide relevant personnel with the details, highlighting any detrimental findings and improvement requirements 3.2 Record audit activity details in accordance with audit plan and workplace requirements

Foundation Skills		
	anguage, literacy, numeracy and employment skills that are essential for npetency but are not explicit in the performance criteria.	
Skill	Description	
Reading	Identifies and interprets aquaculture environmental principles	
Writing	Records test results with appropriate technical detail	
Navigate the world of work	Interprets and follows complex environmental requirements	
Get the work done	Incorporates workplace processes and with aquaculture environmental	

Foundation Sk	ills
	bes those language, literacy, numeracy and employment skills that are essential for s unit of competency but are not explicit in the performance criteria.
Skill	Description
	principlesUses appropriate technology to conduct audit criteria requirements

Unit Mapping Information			
Code and title current version	Code and title previous version	Comments	Equivalence status
SFIAQU5X3 Conduct an aquaculture environmental audit	N/A		New unit

Links	Companion Volumes, including Implementation Guides, are available at	
	VETNet:	
	https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=e31d8c6b-1608-	
	4d77-9f71-9ee749456273	

TITLE	Assessment requirements for SFIEMS5X3 Conduct an aquaculture environmental audit
Performance E	dence
An individual demor foundation skills in t	trating competency must satisfy all of the elements, performance criteria and is unit.
	nce that the individual has interpreted, investigated and recorded information related to onmental audit on at least one occasion.
-	vidence must also include:
	easuring the effectiveness of environmentally sustainable practices strategies for:
•	nergy resources
 managing v 	
 minimising 	
 groundwate 	•
-	dverse interactions with wildlife
-	logy effectively
 paying attention 	
•	esults accurately
-	vely with relevant personnel
	ing and applying information
 using PPE 	
•	ork health and safety standards
	ys and necessary documentation
 using aquacultu 	

using aquaculture technologyusing recording and photographic equipment.

Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements, performance criteria and foundation skills of this unit. This includes knowledge of: • operational aquaculture processes:

- fish farms
- hatchery
- transport of stock and equipment
- service of equipment
- feed technology
- environmental compliance
- high-energy sites
- real time platforms
- probe maintenance
- land aquaculture operational processes:
 - extensive/semi-intensive (usually pond culture)
 - intensive culture systems (flow through systems and RAS)
- relevant aspects of an aquaculture environmental audit:
 - waste evaluation, waste system maintenance, including composting, shredding, re-using and recycling
 - energy usage, including fuel efficiency, passive energy use
 - · water resource management, including the minimisation of water contamination with chemicals
 - minimising interactions with wildlife and other resource users
 - effective use of technology and atomisation
 - the general features and capabilities of aquaculture technology
 - water management systems
- groundwater monitoring techniques
- environmental control standards relevant to aquaculture practices
- legislative requirements relevant to environmentally sustainable aquaculture practices
- environmental risk identification and reduction
- principles of composting and waste management
- · principles of integrated and sustainable agriculture and aquaculture systems
- features of antibiotic, pesticide and herbicide resistance
- effect of effluent on plants, animals and environment.
- principles of energy flows and food webs
- · key features of land and drainage catchment and coastal processes
- impact of noise, dust, odour and light control on aquaculture operations
- principles of nutrient cycling
- options for mechanisation or automation of process or activity
- · soil testing processes and procedures and results interpretation
- options for use of specialised contract services
- relevant manufacturer specifications
- fishery or aquaculture work and healthy standards
- information gathering techniques.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in a fisheries or aquaculture setting or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - access to aquaculture technology or systems to monitor operational capacity and usage
- specifications:
 - access to aquaculture operational records
 - access to audit tools
- relationships:
 - evidence of interactions with relevant personnel.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links	Companion Volumes, including Implementation Guides, are available at VETNet:
	https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=e31d8c6b-1608-4d77-
	9f71-9ee749456273