Modification history

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

SFIEMS5X2	Plan an aquaculture environmental audit This unit of competency describes the skills and knowledge required to contribute to the development and implementation of aquaculture plans and strategies by planning an aquaculture environmental audit that incorporates ecological issues, waste management and the management of marine stock.	
Application		
	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.
Determine audit objectives	1.1 Determine internal or external aquaculture environmental audit purpose and requirements
	1.2 Consider the inclusion of audit 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 ecosytems
	1.3 Document aquaculture environmental audit objectives and standards
2. Scope the audit site	2.1 Obtain information relating to the site and its operational capacity from relevant personnel
	2.2 Assess site characteristics to determine the health of marine species,
	organic waste release, energy usage, groundwater monitoring, interactions
	with wildlife and other species and the health of coastal ecosytems
	2.3 Report potential hazards; physical and operational risks that may arise
	when the audit is being conducted to relevant personnel
	2.4 Plan the date, time and duration of the audit
	2.5 Plan details relating to the specific site requirements, access to the site
	and emergency and personal protective equipment (PPE) requirements
	2.6 Obtain authorisation to proceed with the audit in accordance with
	workplace procedures and legislative and regulative requirements
	2.7 Confirm guidelines for audit processes and confidentiality arrangements
2. December ditales	according to workplace requirements and legislation and codes
3. Record audit plan	3.1 Record aquaculture environmental audit details in accordance with workplace procedures
	3.2 Complete documentation in relation to site visit purpose in accordance with assigned instructions

Foundation Skills		
	anguage, literacy, numeracy and employment skills that are essential for mpetency but are not explicit in the performance criteria.	
Skill	Description	
Reading	Identifies and interprets aquaculture environmental principles	
Writing	Records test requirements with appropriate technical detail	

Foundation Skills		
	language, literacy, numeracy and employment skills that are essential for mpetency but are not explicit in the performance criteria.	
Skill	Description	
Navigate the world of work	Considers complex environmental requirements	
Get the work done	 Incorporates workplace processes and with aquaculture environmental principles Anticipates the use of appropriate technology to plan audit criteria requirements 	

Unit Mapping Information			
Code and title current version	Code and title previous version	Comments	Equivalence status
SFIAQU5X2 Plan 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 SFIEMS5X2 Plan an aquaculture environmental audit

Performance Evidence

An individual demonstrating competency must satisfy all of the elements, performance criteria and foundation skills in this unit.

There must be evidence that the individual has planned an aquaculture environmental audit on at least one occasion.

In doing the above, evidence must also include:

- identifying and measuring the effectiveness of environmentally sustainable practices strategies for:
 - · conserving energy resources
 - groundwater
 - · managing water use
 - · minimising waste
 - · minimising adverse interactions with wildlife
 - · using technology effectively
- · recording audit requirements
- · consulting effectively with relevant personnel
- displaying aquaculture environmental impact awareness
- · identifying hazards and risks
- sourcing, organising and applying information
- anticipating emergency procedures and the use of PPE
- · complying with work health and safety standards
- developing surveys ad necessary documentation for the audit
- anticipating the use of aquaculture technology
- · anticipating the use of 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
- audit planning processes
- · 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.

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