



Australian Government

SFIEMS501 Plan an aquatic environmental audit

Release: 1

SFIEMS501 Plan an aquatic environmental audit

Modification History

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

Application

This unit of competency describes the skills and knowledge required to contribute to the development and implementation of aquatic plans and strategies by planning an aquatic environmental audit that incorporates ecological issues.

This unit applies to individuals who have specialised aquatic environmental knowledge and develop processes, liaise with clients and effectively identify audit processes for the environmental impact of aquatic practices.

All work must be carried out to comply with workplace procedures, according to state/territory health and safety, food safety, biosecurity and environmental regulations, legislation and standards that apply to the workplace.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Environmental Management Systems (EMS)

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Determine audit objectives	1.1 Determine the purpose and requirements of the internal or external environmental audit of aquatic operational processes against the principles of integrated and sustainable aquatic systems 1.2 Determine how the aquatic operational processes will be assessed

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	against environmental control standards and legislative requirements relevant to aquatic practices 1.3 Incorporate relevant audit standards relating to the health of aquatic species; organic waste release; water and energy usage, interactions with wildlife and other species; the use of aquatic technology; and the health of coastal ecosystems 1.4 Document aquatic environmental audit objectives and standards
2. Develop audit tools	2.1 Obtain authorisation to proceed with the audit according to workplace procedures and health and safety standards 2.2 Determine information gathering techniques and testing processes for audit purposes 2.3 Develop surveys or necessary documentation for the audit 2.4 Plan requirements and anticipate the use of the audit resources 2.5 Confirm guidelines for audit processes and confidentiality arrangements according to workplace requirements and regulatory codes
3. Scope the audit site	3.1 Obtain information relating to the site and its operational capacity from relevant personnel to determine audit planning needs 3.2 Assess site characteristics to determine site audit requirements relating to the health of aquatic species; organic waste release; water and energy usage; interactions with wildlife and other species; the use of aquatic technology; and the health of coastal ecosystems 3.3 Report potential hazards and physical and operational risks that may arise to relevant personnel 3.4 Plan the date, time and duration of the audit 3.5 Plan details relating to the specific site requirements, access to the site and emergency and personal protective equipment (PPE) requirements
4. Record audit plan	4.1 Record aquatic environmental audit details according to workplace procedures 4.2 Complete documentation in relation to site visit purpose according to assigned instructions

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.

Skill	Description
Reading	Identify and interpret aquatic environmental principles in scientific texts
Writing	Record test requirements with appropriate technical detail

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
SFIEMS501 Plan an aquatic environmental audit	Not applicable	Unit has been created to address an emerging skill required by industry	Newly created

Links

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

Assessment Requirements for SFIEMS501 Plan an aquatic environmental audit

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Performance Evidence

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

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

In doing the above, there must also be evidence that the individual has:

- identified and measured the effectiveness of environmentally sustainable practices strategies for:
 - conserving energy resources
 - groundwater monitoring
 - managing water use
 - minimising waste
 - minimising adverse interactions with wildlife
 - using technology effectively
- recorded audit requirements
- consulted effectively with relevant personnel
- identified hazards and risks
- sourced, organised and applied information
- planned emergency procedures and the use of personal protective equipment (PPE)
- complied with work health and safety standards
- developed surveys and necessary documentation for the audit
- planned 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 and performance criteria of this unit. This includes knowledge of:

- aquatic operational processes:
 - fish farms

- key features of land and drainage catchment and coastal processes
- transport of stock and equipment
- service of equipment
- feed technology
- environmental compliance
- high-energy sites
- real time systems
- probe maintenance
- relevant aspects of an aquatic environmental audit:
 - waste evaluation
 - 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 and options for improvements
 - the general features and capabilities of aquatic technology
 - water management systems
- environmental control standards and legislative requirements relevant to aquatic practices
- environmental risk identification and reduction
- principles of integrated and sustainable aquatic systems, including:
 - effect of effluent on plants, animals and environment
 - energy flows and food webs
 - nutrient cycling
 - impact of noise, dust, odour and light control
- aquatic health and safety standards
- audit planning processes, including:
 - information gathering techniques
 - testing and result interpretation processes
 - survey planning
 - operational processes that should be included
 - consultative processes
 - options for use of specialised contract services.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in an aquatic setting or an environment that accurately represents workplace conditions
- resources, equipment and materials:

- aquatic technology or systems to monitor operational capacity and usage
- specifications:
 - aquatic operational records
 - audit tools
- relationships:
 - relevant personnel as specified in the performance evidence.

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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