



**Australian Government**

# **SFIEMS502 Conduct an aquatic environmental audit**

**Release: 1**

# SFIEMS502 Conduct 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 conducting an aquatic environmental audit that incorporates ecological issues and the management of aquatic species.

This unit applies to individuals who have specialised aquatic environmental knowledge and follow assigned instructions, liaise with clients and effectively identify and assess aquatic practices and how they impact on the aquatic environment.

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. Prepare for aquatic environmental audit       | 1.1 Review environmental audit criteria to determine job requirements, including standards relating to the health of aquatic species; organic waste release; energy usage; water management; effective use of technology and options for improvement; interactions |

| Elements                                         | Performance Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Elements describe the essential outcomes.</i> | <i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                  | <p>with wildlife and other species; and the health of coastal ecosystems</p> <p>1.2 Assess prospective audit site for hazards and make safety arrangements according to workplace health and safety standards and procedures</p> <p>1.3 Access technology and equipment, including personal protective equipment (PPE) required to conduct audit</p> <p>1.4 Determine site access requirements to conduct audit and make appropriate arrangements</p> <p>1.5 Advise specified personnel of audit requirements and processes</p> |
| 2. Carry out aquatic environmental audit         | <p>2.1 Commence aquatic environmental audit at the specified site, as planned and according to workplace health and safety standards and environmental codes relevant to aquatic systems practices</p> <p>2.2 Consult with relevant personnel and check physical and workplace records for all aspects specified in the audit criteria</p> <p>2.3 Use survey and/or appropriate testing processes to conduct audit</p>                                                                                                          |
| 3. Record aquatic environmental audit findings   | <p>3.1 Compile audit data and provide relevant personnel with the details, highlighting any detrimental findings and improvement requirements</p> <p>3.2 Record audit activity details according to audit plan and workplace requirements</p>                                                                                                                                                                                                                                                                                   |

## 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            | <ul style="list-style-type: none"> <li>Identify and interpret aquatic environmental principles</li> </ul>            |
| Writing            | <ul style="list-style-type: none"> <li>Record test results with appropriate technical detail</li> </ul>              |
| Oral communication | <ul style="list-style-type: none"> <li>Convey and clarify technical aquatic issues with aquatic operators</li> </ul> |

## Unit Mapping Information

| Code and title<br>current version                | Code and title<br>previous version | Comments                                                                | Equivalence status |
|--------------------------------------------------|------------------------------------|-------------------------------------------------------------------------|--------------------|
| SFIEMS502 Conduct 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 SFIEMS502 Conduct 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 interpreted, investigated and recorded information related to 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
  - managing water use
  - minimising waste
  - groundwater monitoring
  - minimising adverse interactions with wildlife
  - using technology effectively
- observed and recorded details accurately
- recorded audit results accurately
- consulted effectively with relevant personnel
- identified hazards and risks
- sourced, organised and applied information
- selected and correctly fit personal protective equipment (PPE) for activity
- complied with work health and safety standards
- used surveys and conducted established audit testing processes
- used 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:

- environmental audit criteria of:

- 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
  - the health of coastal ecosystems
  - energy usage, including fuel efficiency, passive energy use
  - water resource management, including the minimisation of water contamination with chemicals
  - minimisation of interactions with wildlife and other resource users
  - effective use of technology and atomisation and options for improvements
- environmental codes 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 workplace health and safety standards
- audit testing and documentation requirements, including:
  - information gathering techniques
  - operational processes
  - testing methods
  - result interpretation processes
  - consultation processes
  - surveying methods
  - consultative processes.

## 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.

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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