



**Australian Government**

# **SFIBIO501 Plan and implement an aquaculture biosecurity plan**

**Release: 1**

# SFIBIO501 Plan and implement an aquaculture biosecurity plan

## Modification History

| Release   | Comments                                                                      |
|-----------|-------------------------------------------------------------------------------|
| Release 1 | This version released with SFI Seafood Industry Training Package Version 1.0. |

## Application

This unit of competency describes the skills and knowledge required to plan, develop, implement and review an aquaculture biosecurity plan that includes a set of control measures designed to protect a property from the entry and spread of pests and diseases.

This unit applies to individuals who have specialised knowledge and technical and/or managerial responsibility for planning and implementing biosecurity control measures within an aquaculture setting.

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

## Pre-requisite Unit

Nil

## Unit Sector

Biosecurity (BIO)

## 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. Conduct research for developing a biosecurity plan | 1.1 Consider the need, purpose and regulatory requirements for a biosecurity plan<br>1.2 Identify approved sector-specific biosecurity plans or guidelines to guide development of farm plan<br>1.3 Identify diseases and pests that could produce adverse consequences to aquatic animal health and farm productivity<br>1.4 Identify the major transmission routes onto, within and from the |

| Elements                                                          | Performance Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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|                                                                   | farm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 2. Develop control measures for biosecurity risks                 | <p>2.1 Assess the level of biosecurity risks associated with entry, development, establishment and spread of diseases and pests</p> <p>2.2 Examine transmission routes onto, within and from the aquaculture farm and identify practices to minimise risk of introducing and spreading diseases and pests</p> <p>2.3 Examine movement of vectors of disease into, out of and within the aquaculture farm and identify practices to minimise risk of introducing and spreading diseases and pests</p> <p>2.4 Examine farm production practices and identify practices to minimise risk of introducing and spreading diseases and pests</p> <p>2.5 Identify wild aquatic and non-aquatic animals relevant to the farm and determine options for their control</p> <p>2.6 Establish and document control measures based on biosecurity risk analysis</p> |
| 3. Develop control measures for staff training and record keeping | <p>3.1 Identify and document staff training requirements to implement control measures</p> <p>3.2 Establish recording requirements according to regulatory requirements and industry best practice</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 4. Develop, implement, monitor and review biosecurity plan        | <p>4.1 Develop the biosecurity plan based on documented risk analysis process and specific risk control measures</p> <p>4.2 Develop standard operating procedures based on new biosecurity processes</p> <p>4.3 Induct and train staff in standard operating procedures relevant to their role and responsibility</p> <p>4.4 Implement standard operating procedures and monitor staff performance</p> <p>4.5 Monitor effectiveness and progress of control measures against plan</p> <p>4.6 Monitor regulatory requirements and industry standards relevant to biosecurity and incorporate in plan</p> <p>4.7 Revise and amend risk assessment and control measures as required</p> <p>4.8 Review staff training and induction records to ensure staff are able</p>                                                                                  |

| Elements                                         | Performance Criteria                                                                                   |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| <i>Elements describe the essential outcomes.</i> | <i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i> |
|                                                  | to implement biosecurity control measures appropriate to their role                                    |

## 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>Researches and analyses biosecurity information from a range of sources</li> <li>Interprets business and legal requirements in documentation</li> </ul>                                                                                                                                                      |
| Writing                    | <ul style="list-style-type: none"> <li>Documents the biosecurity plan and standard operating procedures using appropriate format, clear language and correct technical terminology</li> </ul>                                                                                                                                                       |
| Numeracy                   | <ul style="list-style-type: none"> <li>Quantifies resource costs relevant to implementing the biosecurity plan</li> </ul>                                                                                                                                                                                                                           |
| Navigate the world of work | <ul style="list-style-type: none"> <li>Understands legislative and regulatory requirements</li> </ul>                                                                                                                                                                                                                                               |
| Get the work done          | <ul style="list-style-type: none"> <li>Uses systematic, analytical processes to identify and solve problems and make decisions relating to biosecurity risk assessment</li> <li>Uses workplace digital systems and tools to access, organise and analyse data and information relevant to developing and implementing a biosecurity plan</li> </ul> |

## Unit Mapping Information

| Code and title current version                               | Code and title previous version | Comments | Equivalence status |
|--------------------------------------------------------------|---------------------------------|----------|--------------------|
| SFIBIO501 Plan and implement an aquaculture biosecurity plan | Not applicable                  | New unit | No equivalent unit |

## 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 SFIBIO501 Plan and implement an aquaculture biosecurity plan

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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, developed and implemented an aquaculture biosecurity plan on at least one occasion, including:

- determining biosecurity threats to farm
- identifying current access points to property
- developing a biosecurity plan that documents the risk analysis and control measures and procedures for:
  - farm inputs
  - farm outputs
  - movement of vectors of disease, including equipment, vehicles and vessels, water, feed and waste
  - production practices
  - controlling wild aquatic and non-aquatic animals
  - staff training
  - record keeping for traceability of farm inputs and farm outputs
- developing, documenting, inducting and training staff in control measures for:
  - controlling farm inputs
  - biosecurity for farm outputs
  - movement of people
  - vehicles, vessels and equipment
  - production practices
  - control of wild aquatic and non-aquatic animals
  - keeping records
- monitoring effectiveness of biosecurity plan and staff performance to identify improvements.

## 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:

- purpose and process for developing a biosecurity plan
- local, state and national regulatory requirements for aquaculture biosecurity
- purpose and process for conducting an aquaculture biosecurity risk analysis
- diseases or pests that pose a biosecurity threat to the aquaculture organisation
- good biosecurity practices and control measures for:
  - farm inputs
  - farm outputs
  - movement of people
  - movement of stock
  - vessels, vehicles and equipment
  - production practices
  - wild aquatic and non-aquatic animals
  - training staff
  - maintaining records
- best practice record keeping for:
  - moving aquatic stock on and off the property
  - observation on health status
  - water quality data
  - disease testing
  - husbandry records
  - chemical usage and storage
- planning processes for costing, allocating resources and establishing timelines for implementing biosecurity measures
- processes for developing standard operating procedures to implement biosecurity control measures
- processes for improving staff performance against biosecurity control measures
- processes for monitoring effectiveness of biosecurity control measures.

## Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
  - skills must be demonstrated in an aquaculture workplace or an environment that accurately represents workplace conditions
- resources, equipment and materials:
  - information sources on biosecurity issues and risks
  - access to biosecurity regulations

- technology for researching and documenting information
- specifications:
  - farm property plan.

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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