



Australian Government

SFIAQU501 Develop a stock nutrition program

Release: 1

SFIAQU501 Develop a stock nutrition program

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 and improve a stock nutrition program for aquaculture. It includes the ability to assess nutritional requirements in a cost-effective manner, research process improvements, monitor the nutrition program and take corrective action when required

This unit applies to individuals who have technical and/or management responsibilities for stock in an aquaculture facility.

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

Pre-requisite Unit

Nil

Unit Sector

Aquaculture (AQU)

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. Plan a stock nutrition program	1.1 Determine daily and seasonal nutritional requirements of cultured or held stock from published data on species, research programs, historical records, industry practice and workplace procedures 1.2 Research and identify benefits of mechanisation or automation of process or activity and the use of specialised contract services 1.3 Develop a plan to ensure adequate nutrition is provided to achieve appropriate stock condition in line with workplace production plan

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.4 Ensure plan responds to different nutrition requirements during a range of conditions over the growing cycle of stock 1.5 Determine most cost-effective approach to apply required nutrients 1.6 Research selected foods in nutrition plan to identify and minimise risk of adverse side effects on stock or stock culture or holding environment 1.7 Document nutrition plan and communicate to supervisors and management
2. Monitor and improve the stock nutrition program	2.1 Monitor implementation of program by stock-testing to ensure requirements of workplace production plan are achieved 2.2 Monitor and review nutrition program to ensure it remains responsive to changing conditions 2.3 Test new feeds or formulations and introduce into nutrition program in line with workplace practices 2.4 Identify shortcomings in program and implement appropriate courses of action 2.5 Document remedial action taken and report to management

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	- Researches and analyses technical information from a range of sources - Interprets workplace plans, schedules and documentation
Writing	- Documents reports and plans using clear language and appropriate format - Updates and modifies documentation accurately
Numeracy	- Completes statistical analyses of data - Determines cost-effectiveness of stock nutrition program - Applies formulas to stock feed requirements

Skill	Description
Oral communication	Participates in verbal exchanges to convey and explain information clearly using language appropriate for the audience
Navigate the world of work	Works independently and collectively within broad parameters, taking responsibility for plans, decisions and outcomes relating to stock nutrition
Interact with others	Selects and uses appropriate communication protocols and conventions when seeking or sharing information with others
Get the work done	- Gathers relevant information, identifies options, and trials and evaluates new processes and potential improvements to stock nutrition program - Uses key features and functions of workplace digital systems and tools to access, organise, and analyse information relevant to stock nutrition

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
SFIAQU501 Develop a stock nutrition program	SFIAQUA501C Develop a stock nutrition program	Updated to meet Standards for Training Packages	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 SFIAQU501 Develop a stock nutrition program

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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 developed a stock nutrition program for aquaculture on at least one occasion, including:

- analysing data and information to make improvements to the stock nutrition program
- testing new feeds or formulations for inclusion in nutrition program
- conveying information on nutrition program to management for implementation
- documenting a cost-effective stock nutrition program
- monitoring and making improvements to the stock nutrition program.

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:

- feeding behaviour of aquaculture stock
- feed preparation and delivery methods
- workplace feeding strategy, including macro- and micro-elements
- nutritional requirements and nutriment uptake of specific stock
- sources of stock nutriments
- features of nutrient cycling
- nutriment deficiency or toxicity symptoms in specific stock species
- relationship between environmental and water conditions and nutriment availability to stock
- options for mechanisation or automation of process or activity
- options for use of specialised contract services.

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:
 - research materials relating to stock nutrition
 - stock to monitor and test new feeds and formulations
 - stock feed
 - testing and monitoring equipment
 - technology for researching, recording and documenting stock nutrition data and information
- relationships:
 - evidence of interactions with management personnel.

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

Links

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