Modification history

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

| SFIAQU209 | Manipulate stock culture environment |
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| Application | This unit of competency describes the skills and knowledge required to manipulate the stock culture environment to optimise growing or holding conditions.  The unit applies to individuals who carry out routine tasks relating to culture or holding environments in an aquaculture facility under the guidance of a supervisor.  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. Licences may be required if operating load-shifting equipment, vehicles or vessels.  No occupational licensing, legislative or certification requirements apply to the unit at this time of publication. |
| Prerequisite Unit | Nil |
| Unit Sector | Aquaculture (AQU) |

| Elements | Performance Criteria |
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| Elements describe the essential outcomes. | Performance criteria describe the performance needed to demonstrate achievement of the element. |
| 1. Prepare for manipulation of culture or holding environment | 1.1 Confirm with supervisor water quality parameter to be adjusted  1.2 Collect required water treatment materials, equipment and personal protective equipment and check for serviceability  1.3 Move or position water treatment equipment ready for use  1.4 Observe water and environmental conditions which could adversely impact stock and report to supervisor |
| 2. Manipulate culture or holding environment | 2.1 Apply water treatment safely and according to suit stock requirements according to supervisor instructions  2.2 Observe stock behaviour and use work practices which minimise stock stress and damage  2.3 Check water parameters manipulated against stock requirements |
| 3. Complete post-environment manipulation activities | 3.1 Clean work area and dispose of waste materials safely according to workplace procedures  3.2 Check and store tools and equipment, reporting any identified repair requirements to supervisor  3.3 Record relevant data and observations and report any abnormal records to supervisor |

| 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. | |
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| Skill | Description |
| Reading | * Interpret key information in work instructions and relevant workplace procedures |
| Writing | * Complete workplace records legibly and accurately |
| Numeracy | * Measure parameters being adjusted |
| Oral communication | * Ask questions to clarify job requirements * Describe abnormal records, stock behaviour or environmental conditions to supervisor using correct terminology |
| Interact with others | * Follow accepted practices and protocols for reporting issues to supervisors |
| Get the work done | * Plan routine tasks and seek guidance when plans are interrupted, circumstances change or resources are not available |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| SFIAQU209 Manipulate stock culture environment | SFIAQUA209C Manipulate stock culture environment | Updated to meet Standards for Training Packages | Equivalent unit |

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| 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 SFIAQU209 Manipulate stock culture environment |
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| Performance Evidence | |
| An individual demonstrating competency must satisfy all the elements and performance criteria of this unit. There must be evidence that the individual has manipulated the stock culture environment on at least one occasion including:   * communicating with and reporting to supervisor on manipulating the stock culture environment * using required personal protective equipment * operating and maintain basic water treatment equipment * monitoring culture and holding environments to ensure optimal conditions for rearing stock * observing culture conditions and stock behaviour * recording data and observations * cleaning up work area and equipment and storing tools and 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:   * use and purpose of basic water quality tests * features of basic water quality and environmental factors that can impact stock * effects of water and culture conditions on stock * key characteristics of normal and abnormal stock behaviour * methods and techniques for manipulating stock culture or holding environments * main reasons for manipulating the stock culture environment * safe work practices relating to manipulating stock culture and holding environments. |

| Assessment Conditions |
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| Assessment of this unit of competency must take place under the following conditions:   * physical conditions: * skills must be demonstrated in an aquaculture workplace setting or an environment that accurately represents workplace conditions * resources, equipment and materials: * basic water treatment equipment for manipulating stock culture environment * personal protective equipment * culture or holding structures containing stock * data or recording sheets * specifications: * work instructions and workplace procedures for manipulating stock culture environments * relationships * interactions with supervisor.   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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