Modification history

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

| SFIAQU317 | Apply control measures for diseases |
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| Application | This unit of competency describes the skills and knowledge required to investigate and select appropriate control measures for common diseases affecting cultured or held aquatic stock. It includes the ability to treat and monitor affected stock.  The unit applies to individuals who are responsible for the control of common diseases in an aquaculture workplace, working under broad direction.  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 occupational licensing, legislative or certification requirements apply to the unit at the 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. Investigate and diagnose disease outbreaks | 1.1 Implement routine health monitoring program according to workplace procedures  1.2 Investigate and record mortalities and moribund stock  1.3 Diagnose commonly occurring diseases  1.4 Collect and prepare samples for laboratory diagnosis according to workplace procedures and laboratory specifications |
| 2. Apply control methods for treatment of diseases | 2.1 Select control methods according to workplace procedures  2.2 Identify and assess risks and select and use appropriate personal protective equipment  2.3 Administer treatment following workplace procedures and veterinary guidelines  2.4 Comply with withholding periods of medications  2.5 Notify supervisor promptly about changes to treatments or severity of outbreak |
| 3. Monitor post-disease control activities | 3.1 Check cleaning and sterilisation of work area and equipment is completed according to workplace procedures  3.2 Ensure appropriate disposal of infected stock and treated water  3.3 Check condition, maintenance requirements and storage of tools and equipment  3.4 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 stock health plans and workplace procedures for hazard identification and risk assessment and control of diseases * Interpret laboratory specifications and reports * Interpret medication and chemical labels and safety signs |
| Writing | * Prepare labels for laboratory samples * Complete workplace records and reports legibly and using accurate technical terminology |
| Numeracy | * Measure dose rates for medication or chemical treatments * Estimate and quantify infestation severity * Calculate or estimate weights and volumes |
| Oral communication | * Participate in verbal exchanges to convey and clarify disease control activity using language appropriate for audience |
| Get the work done | * Use a microscope to identify disease organisms |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| SFIAQUA317 Apply control measures of diseases | SFIAQUA317A Oversee the control of diseases | Updated to meet Standards for Training Packages.  Revised unit title and  minor changes to elements and performance criteria to better reflect outcomes. | 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 SFIAQU317 Apply control measure for diseases |
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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 applied control measures for diseases affecting aquatic stock on at least one occasion including:   * communicating and reporting to supervisor about disease outbreaks and treatments * investigating and diagnosing disease outbreaks * collecting and preparing samples * using a microscope to identify disease organisms * selecting control methods for diseases in line with workplace procedures * responding to disease outbreaks to minimise loss or harm to stock * recording disease observation and treatments * finalising cleaning and sterilisation activities relating to disease control. | |

| Knowledge Evidence |
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| 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:   * hazard identification and risk assessment for the control of diseases * required equipment and process for preparing samples * features of normal and abnormal stock behaviour relevant to disease * characteristics, signs and symptoms of disease outbreak of cultured or held stock * common types and environmental causes of diseases * life cycles of common diseases * methods for prevention, control and treatment of outbreaks of diseases: * cleaning and sterilising equipment * quarantining equipment and stock * chemical and non-chemical control measures * withholding periods of various common treatment programs * legislative, regulatory and biosecurity requirements associated with controlling diseases * health and safety requirements associated with controlling diseases. |

| 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 or an environment that accurately represents workplace conditions * resources, equipment and materials: * personal protective equipment * culture or holding structures and stock * equipment for controlling disease * medications, chemicals or products used in the treatment of diseases * microscopes and dissecting instruments * specifications: * workplace procedures for the control of disease * 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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