

Modification history

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

SFIAQU316	Apply control measures for predators and pests
Application	<p>This unit of competency describes the skills and knowledge required to diagnose, investigate and select appropriate control measures for predators and pests affecting cultured or held aquatic stock. It includes the ability to treat and monitor affected stock.</p> <p>The unit applies to individuals who are responsible for the control of predators and pests in an aquaculture workplace, working under broad direction and having limited responsibility for the work of others.</p> <p>All work must be carried out to comply with workplace procedures, according to state/territory health and safety, biosecurity and environmental regulations, legislation and standards that apply to the workplace.</p> <p>No occupational licensing, legislative or certification requirements apply to the unit at the time of publication.</p>
Prerequisite Unit	Nil
Unit Sector	Aquaculture (AQU)

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. Diagnose predator and pest infestations or problems	1.1 Implement and monitor workplace hazard identification and risk assessment and control procedures 1.2 Select and use appropriate personal protective equipment 1.3 Monitor stock health according to workplace procedures 1.4 Diagnose injured or unhealthy stock checking against specialist advice where doubt exists 1.5 Obtain professional advice according to complexity of the problem or the severity of infestation
2. Investigate and analyse predator and pest infestations	2.1 Investigate predator and pest infestations and report stock deaths to supervisor 2.2 Make observations to support a systematic and comprehensive analysis of available symptoms 2.3 Collect, prepare and send samples for laboratory diagnosis according to workplace procedures and laboratory specifications 2.4 Draw conclusions from relevant information based on appropriate evidence
3. Select control measures for the treatment of predators and pests	3.1 Select control methods according to environmental conditions, stock species and severity of infestation or problem 3.2 Select and implement measures to minimise spread of infestation or problem according to workplace procedures
4. Treat affected stock	4.1 Receive and interpret external analysis of samples 4.2 Take appropriate action or give medication according to veterinary guidelines, obtaining appropriate approval for use of restricted medication 4.3 Comply with withholding periods of medications 4.4 Monitor progress with manufacturer specifications and workplace records 4.5 Modify treatment programs and maintain records according to workplace procedures 4.6 Notify supervisor promptly about significant changes to treatments

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
5. Monitor and review post-predator and pest treatment or control activities and operations	5.1 Check cleaning of work area and disposal of waste materials is completed according to workplace procedures and environmental requirements 5.2 Check condition, maintenance requirements and storage of tools and equipment 5.3 Record relevant data and observations and report any abnormal records to supervisor 5.4 Prepare compliance and other required reports advising on effectiveness of predator and pest treatment or control

Foundation Skills	
<i>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.</i>	
Skill	Description
Reading	<ul style="list-style-type: none"> Interpret workplace procedures for hazard identification and risk assessment and control relating to predators and pests Interpret laboratory specifications Interpret medication and chemical labels and safety signs
Writing	<ul style="list-style-type: none"> Prepare labels for laboratory samples Complete workplace records and reports legibly using accurate technical terminology
Numeracy	<ul style="list-style-type: none"> Analyse medication or chemical usage Calculate dose rates for medication or chemicals Estimate and quantify infestation severity Calculate or estimate weights and volumes
Oral communication	<ul style="list-style-type: none"> Participate in verbal exchanges to convey and clarify predator and pest control activity using language appropriate for audience
Interact with others	<ul style="list-style-type: none"> Use appropriate communication protocols and channels when briefing and debriefing staff and liaising with external personnel
Get the work done	<ul style="list-style-type: none"> Use key functions and features workplace systems to record data and observations

Unit Mapping Information			
Code and title current version	Code and title previous version	Comments	Equivalence status
SFIAQU316 Apply control measures for predators and pests	SFIAQUA316A Oversee the control of predators and pests	Updated to meet Standards for Training Packages. Revised unit title and minor changes to elements and performance criteria to better reflect outcomes.	Equivalent unit

Links	Companion Volumes, including Implementation Guides, are available at VETNet: https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=e31d8c6b-1608-4d77-9f71-9ee749456273
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TITLE	Assessment requirements for SFIAQU316 Apply control measures for predators and pests
Performance Evidence	
<p>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 predators and pests affecting aquatic stock on at least one occasion including:</p> <ul style="list-style-type: none"> • communicating and reporting to supervisor about infestations and treatments • diagnosing and investigating predator threats and pest infestations • selecting control methods for predators and pests in line with workplace procedures • responding to attack by predators and outbreaks of pests to minimise loss or harm to stock • preparing predator and pest treatment or control observations and compliance reports • applying work health and safety and environmental requirements • finalising cleaning activities relating to predator and pest control. 	
Knowledge Evidence	
<p>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:</p> <ul style="list-style-type: none"> • hazard identification and risk assessment for the control of predators and pests • required equipment and process for preparing samples • features of normal and abnormal stock behaviour relevant to predator and pests • characteristics, signs and symptoms of predators and pest infestations of cultured or held stock • location and availability of expert assistance • common types and environmental causes of predators and pests • life cycles and behaviour of common predators and pests • methods for prevention, control and treatment of outbreaks of predators and pests: <ul style="list-style-type: none"> • chemical and non-chemical control measures • withholding periods of various common treatment programs • legislative, regulatory or compliance requirements associated with controlling predators and pests • health and safety requirements associated with controlling predators and pests. 	
Assessment Conditions	
<p>Assessment of this unit of competency must take place under the following conditions:</p> <ul style="list-style-type: none"> • physical conditions: <ul style="list-style-type: none"> • skills must be demonstrated in an aquaculture workplace or an environment that accurately represents workplace conditions • resources, equipment and materials: <ul style="list-style-type: none"> • personal protective equipment • culture or holding structures and stock • equipment for controlling or preventing predators and pests from harming stock • treatments or products used in the control of predators and pests • microscopes and dissecting instruments • compliance reporting system • specifications: <ul style="list-style-type: none"> • workplace procedures for the control of predators and pests that includes hazard identification and risk assessment and control and advice on health and safety and environmental requirements • relationships <ul style="list-style-type: none"> • interactions with supervisor. <p>Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.</p>	
Links	Companion Volumes, including Implementation Guides, are available at VETNet: https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=e31d8c6b-1608-4d77-9f71-9ee749456273