Modification history

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| Release | Comments |
| Release 1 | This version released with SFI Seafood Industry Training Package Version 2.0. |

| SFIEMS5X2 | Plan an aquatic environmental audit |
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| Application | This unit of competency describes the skills and knowledge required to contribute to the development and implementation of aquatic plans and strategies by planning an aquatic environmental audit that incorporates ecological issues, and the management of marine species.  This unit applies to individuals who have specialised aquatic environmental knowledge and develop processes, liaise with clients and effectively identify audit processes for the environmental impact of aquatic practices.  No licensing, legislative or certification requirements apply to this unit at the time of publication. |
| Use Prerequisite Unit | Nil |
| Unit Sector | Aquatic |

| 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. Determine audit objectives | 1.1 Determine the purpose and requirements of the internal or external environmental audit of aquatic operational processes against the principles of integrated and sustainable aquatic systems  1.2 Determine how the aquatic operational processes will be assessed against environmental control standards and legislative requirements relevant to aquatic practices  1.3 Consider the inclusion of audit standards relating to the health of marine species; organic waste release; water and energy usage, interactions with wildlife and other species; the use of aquatic technology; and the health of coastal ecosystems  1.4 Document aquatic environmental audit objectives and standards |
| 2. Develop audit tools | 2.1 Consider information gathering techniques and testing processes for audit purposes  2.2 Develop surveys or necessary documentation for the audit  2.3 Anticipate the use of the audit resource requirements  2.4 Obtain authorisation to proceed with the audit in accordance with workplace procedures and work health and safety standards (WHS)  2.5 Confirm guidelines for audit processes and confidentiality arrangements according to workplace requirements and regulatory codes |
| 2. Scope the audit site | 3.1 Obtain information relating to the site and its operational capacity from relevant personnel to determine audit planning needs  3.2 Assess site characteristics to determine site audit requirements relating to the health of marine species; organic waste release; water and energy usage; interactions with wildlife and other species; the use of aquatic technology; and the health of coastal ecosystems  3.3 Report potential hazards and physical and operational risks that may arise to relevant personnel  3.4 Plan the date, time and duration of the audit  3.5 Plan details relating to the specific site requirements, access to the site and emergency and personal protective equipment (PPE) requirements |
| 4. Record audit plan | 4.1 Record aquatic environmental audit details in accordance with workplace procedures  4.2 Complete documentation in relation to site visit purpose in accordance with assigned instructions |

| 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 | * Identify and interpret aquatic environmental principles |
| Writing | * Record test requirements with appropriate technical detail |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| SFIAQU5X2 Plan an aquatic environmental audit | N/A |  | New 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 SFIEMS5X2 Plan an aquatic environmental audit |
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| Performance Evidence | |
| An individual demonstrating competency must satisfy all of the elements, performance criteria and foundation skills in this unit.  There must be evidence that the individual has planned an aquatic environmental audit on at least one occasion.  In doing the above, evidence must also include:   * identifying and measuring the effectiveness of environmentally sustainable practices strategies for: * conserving energy resources * groundwater monitoring * managing water use * minimising waste * minimising adverse interactions with wildlife * using technology effectively * recording audit requirements * consulting effectively with relevant personnel * identifying hazards and risks * sourcing, organising and applying information * anticipating emergency procedures and the use of PPE * complying with work health and safety standards * developing surveys and necessary documentation for the audit * anticipating the use of aquatic technology * anticipating the use of recording and photographic equipment. | |

| Knowledge Evidence |
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| An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements, performance criteria and foundation skills of this unit. This includes knowledge of:   * aquatic operational processes: * fish farms * key features of land and drainage catchment and coastal processes * transport of stock and equipment * service of equipment * feed technology * environmental compliance * high-energy sites * real time systems * probe maintenance * relevant aspects of an aquatic environmental audit: * waste evaluation * energy usage, including fuel efficiency, passive energy use * water resource management, including the minimisation of water contamination with chemicals * minimising interactions with wildlife and other resource users * effective use of technology and atomisation and options for improvements * the general features and capabilities of aquatic technology * water management systems * environmental control standards and legislative requirements relevant to aquatic practices * environmental risk identification and reduction * principles of integrated and sustainable aquatic systems, including: * effect of effluent on plants, animals and environment * energy flows and food webs * nutrient cycling * impact of noise, dust, odour and light control * aquatic work health and safety (WHS) standards * audit planning processes, including: * information gathering techniques * testing and result interpretation processes * survey planning * operational processes that should be included * consultative processes * options for use of specialised contract services. |

| Assessment Conditions |
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| Assessment of skills must take place under the following conditions:   * physical conditions: * skills must be demonstrated in an aquatic setting or an environment that accurately represents workplace conditions * resources, equipment and materials: * access to aquatic technology or systems to monitor operational capacity and usage * specifications: * access to aquatic operational records * access to audit tools * relationships: * evidence of interactions with relevant personnel.   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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