Modification history

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| Release | Comments |
| Release 2 | This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 5.0. |
| Release 1 | This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 1.0. |

| AHCNAR505 | Plan river restoration works |
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| Application | This unit of competency describes the skills and knowledge required to prepare a detailed plan for river restoration works, in consultation with the client and relevant consent authorities.  This unit applies to individuals who work as restoration and rehabilitation project managers and who analyse information and exercise judgement to complete a range of advanced skilled activities demonstrating a deep knowledge in specific technical areas within land management. They have accountability for the work of others and analyse, design and communicate solutions to a range of complex problems.  No occupational licensing, legislative or certification requirements are known to apply to this unit at the time of publication. |
| Prerequisite Unit | Nil |
| Unit Sector | Natural Area Restoration (NAR) |

| 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. Establish client need | 1.1 Confirm client expectations  1.2 Explain current impacting legislation and policies  1.3 Discuss possible strategies and confirm the best option |
| 2. Develop the strategy to utilise river restoration works | 2.1 Check maps and titles to determine property ownership and boundaries  2.2 Determine profiles of river sections from pictorial images  2.3 Develop erosion and sediment control measures consistent with industry principles and selection criteria  2.4 Develop fauna habitats following industry recommendations  2.5 Ensure plants used in project comply with industry guidelines  2.6 Establish and document restoration strategies with the client and relevant consent authority |
| 3. Prepare a detailed river restoration works plan | 3.1 Check selection criteria for earthwork structures or measures against industry guidelines and legislative requirements  3.2 Check habitat enhancement strategies against industry guidelines  3.3 Prepare plan according to industry best practice and the requirements for submission to the relevant consent authority |

| 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 | * Organise, assess and critique data and information from maps, images, legislation and regulations for incorporation into planning process |
| Writing | * Prepare, proofread and edit programs, schedules and plans for river restoration works ensuring clarity of meaning, accuracy and consistency of information |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| AHCNAR505 Plan river restoration works  Release 2 | AHCNAR505 Plan river restoration works  Release 1 | Changes to Application  Minor changes to Performance criteria for clarity  Updated Performance Evidence, Knowledge evidence and Assessment Conditions | 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=c6399549-9c62-4a5e-bf1a-524b2322cf72 |

| TITLE | Assessment requirements for AHCNAR505 Plan river restoration works |
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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 on at least one occasion prepared a plan for restoration works of a river and has:   * discussed client expectations for restoration strategies and included in plan * planed river restoration works according to client, environmental and legislative requirements * developed erosion and sediment control measures * followed industry guidelines to establish fauna habitat and vegetation species * documented strategy for submission to authorising authority * prepare a detailed works plan. | |

| 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:   * relevant environmental protection, planning and groundwater legislation * river restoration techniques and processes * erosion and sediment control techniques * planning procedure for erosion and sediment control * erosion control and design principles and factors including: * soils and soil formation * levels and levelling * earthmoving principles * total catchment issues * managing peak water flows * subsurface and surface drainage principles and systems * restoration principles and techniques * legal requirements related to permits * environmental issues * relevant legislation and regulations relating to soil and water degradation issues |

| Assessment Conditions |
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| Assessment of skills must take place under the following conditions:   * physical conditions: * skills must be demonstrated in the field at a river system requiring restoration works * resources, equipment and materials: * computers for research and development of plans and documents * specifications: * use of workplace policies and procedures for design development and documentation * access to legislation, regulations and codes of practice for revegetation works * relationships * client.   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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