Modification history

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| Release | Comments |
| Release 1 | This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 6.0. |

| AHCECR2XX | Perform basic ecological restoration works |
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| Application | This unit of competency describes the skills and knowledge required to carry out basic ecological restoration works following a restoration plan and instructions.  The unit applies to individuals engaged in conservation and land and water management programs and who undertake defined routine activities under supervision. They exercise limited autonomy within established and well known parameters, providing solutions to a limited range of predictable problems.  No licensing, legislative or certification requirements apply to this unit at the time of publication. |
| Prerequisite Unit | Nil |
| Unit Sector | Ecological Restoration (ECR) |

| 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. Identify activities and inspect site for required works | 1.1 Locate work site from plans and interpret goals for project from supervisor instructions  1.2 Locate elements within site that are intact and require protecting  1.3 Identify areas on site that have potential for natural or assisted regeneration  1.4 Identify or confirm areas requiring reintroduction of biota  1.5 Identify treatments for specific locations on site according to supervisor instructions  1.6 Confirm site works to be performed with supervisor |
| 2. Prepare for basic ecological restoration work | 2.1 Identify site specific environmental and work health and safety hazards, assess risks and report to supervisor  2.2 Select, prepare and transport tools, equipment and machinery for site works  2.3 Carry out pre-operational and safety checks on tools, equipment and machinery  2.4 Identify and implement biosecurity control measures  2.5 Select, check and use personal protective equipment  2.6 Prepare tools and materials for ecological restoration treatments and transport to site |
| 3. Implement basic ecological restoration treatments | 3.1 Apply substrate and hydrological treatments according to instructions  3.2 Apply control treatments to competing undesirable biota  3.3 Install basic habitat elements  3.4 Apply basic reintroduction of biota  3.5 Follow work health and safety policies and procedures during works |
| 4. Complete basic ecological restoration works | 4.1 Install and maintain security, support or protection devices  4.2 Undertake follow up of control of competing species or adjust substrate, hydrology or habitat elements  4.3 Clear and dispose of site waste according to environmental procedures  4.4 Clean, maintain and store tools, equipment and machinery  4.5 Report work outcomes according to workplace procedures |

| 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 | * Interprets supervisor instructions to identify work requirements |
| Oral communication | * Communicate with supervisor using clear language and industry terminology to clarify and confirm work requirements |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| AHCECR2XX Carry out basic ecological restoration works | New | Replacement unit for NAR201 Carry out natural area restoration works | No 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 AHCECR2XX Perform basic ecological 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 performed ecological restoration works for at least two different ecological environments.  There must also be evidence that the individual has:   * established activities for works from the supervisor instructions and confirmed with supervisor * confirmed project goal, approaches, methods and treatments from plans and supervisor instructions * inspected site for intact elements, including: * biota * soil profiles * other substrates * identified treatments from instructions, including: * substrate * hydrological * habitat * competition * reintroduction * protected existing biota, habitat features and substrates * prepared and carried out at least two (2) of the following assisted regeneration treatments as part of a team: * removal of competing biota * installation of habitat features * applied disturbance to trigger recovery * transported tools and materials to site * carried out biological reintroduction treatments according to instructions including two (2) of the following methods: * transplanted stock from natural area * planted nursery stock * sown seed or other propagules * secured and protected the restored area * removed waste and cleaned the site according to workplace environmental procedures * carried out work according to instructions and work health and safety requirements. | |

| 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:   * basic principles of ecological restoration, and the application of industry standards * the concept of ecosystem resilience and its application in areas of different degradation level * basic mechanisms of natural recovery, including: * resprouting * cell division * seed and propagule banks * basic ecological restoration approaches suited to different degrees of degradation * basic ecological restoration techniques suited to different species and degrees of degradation * common names of key native plants, animals and other organisms present in restoration area * native plant and animal growth and habitat requirements specific to the ecosystems in a restoration area * common names of weeds, pest animals and other undesirable organisms present in restoration area * key physiological characteristics of undesirable species relevant to their control * the role of genetic diversity and integrity in fragmented ecosystems with a basic consideration of implications of climate change. |

| 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 as specified in the performance evidence * resources, equipment and materials: * tools and equipment required for ecological restoration works * materials required for treatments * specifications: * use of specific workplace procedures and processes * access to specific safety data sheets for chemical treatments * use of workplace instructions and project brief * relationships: * team members * 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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