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 X.0 |
| Release 1 | This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 1.0 |

| AHCPER316 | Select plant and animal species for permaculture systems |
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| Application | This unit of competency describes the skills and knowledge required to select plant and animal species for permaculture systems, including conducting a permaculture needs analysis and bioregional analysis to determine plant and animal species and their interrelationships.  The unit applies to individuals who take responsibility for their own work and for the quality of the work of others. They use discretion and judgement in the selection, allocation and use of available resources.  No licensing, legislative or certification requirements apply to this unit at the time of publication. |
| Prerequisite Unit | Nil |
| Unit Sector | Permaculture (PER) |

| 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. Assess the system needs | 1.1 Undertake a needs analysis of permaculture system and its main elements  1.2 Identify possible plant and animal combinations to suit permaculture system design  1.3 Identify and compile a list of plants and animals to suit design parameters |
| 2. Research plant and animal systems | 2.1 Investigate plants and animals and their varieties and breeds identified in the needs analysis  2.2 Observe and consider changes to working system that will inform new design  2.3 Assess availability of chosen varieties and breeds |
| 3. Select plant and animal species for the permaculture system | 3.1 Determine combinations of plant and animal species that achieve desired permaculture system outcomes  3.2 Ensure ancillary needs are available before establishing new plant and animal systems  3.3 Obtain plants and animals for permaculture system  3.4 Monitor plant and animal systems during establishment phase |

| 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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| Foundation Skills essential to performance are explicit in the performance criteria of this unit of competency. |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| AHCPER316 Select plant and animal species for permaculture systems | AHCPER316 Select plant and animal species for permaculture systems | Minor changes to Application, and Performance Criteria for clarity and compliance with standards for training packages | Equivalent |

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| Links | Companion Volumes, including Implementation Guides, are available at VETNet: https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72 |

| TITLE | Assessment requirements for AHCPER316 Select plant and animal species for permaculture systems |
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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 selected plants and animals for integration into a permaculture system, including:   * assessed permaculture system needs * investigated plant and animal suitability for new permaculture system design * selected and acquired plant and animal species for a permaculture system and availability of their ancillary needs, including: * housing * prepared ground * shelter * food source * monitored plant and animal systems during the establishment phase. | |

| 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:   * permaculture principles and practices related to species selection * permaculture needs analysis including bioregional analysis * plant and animal species and their interactions and interrelationships, including: * permaculture combinations – guilds, companions, nurse plants and animal companions * EVCs (Ecological Vegetation Classes) * indigenous animals and plants * what grows or thrives locally – plants, animals, birds, insects, fish, frogs, reptiles * food, fodder and medicinal plant species suitable for chosen animals * integrated plant and animal systems such as chicken tractors, cell grazing, aquaculture systems * basic investigative and research techniques * primary data sources, including: * original data gathered by the researcher * local wisdom * weather observations * flora and fauna observations * using secondary data sources, including: * data provided by government departments and agencies * publications * reference books, websites and journals * official weather data. |

| Assessment Conditions |
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| Assessment of the skills in this unit of competency must take place under the following conditions:   * physical conditions: * skills must be demonstrated in a permaculture system or an environment that accurately represents workplace conditions * resources, equipment and materials: * use of plants and animals for establishing system * use of ancillary resources for animals * use of basic research tools and materials * specifications: * use of bioregion data and permaculture system design.   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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