Modification history

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

| AHCPER3X9 | Coordinate propagation activities for a permaculture system |
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| Application | This unit of competency describes the skills and knowledge required to plan propagation activities for a permaculture system, including identification and source of propagation material, seasonal propagation activities, application of permaculture and organic principles.  This unit applies to individuals who analyse information and exercise judgement to complete a range of advanced skilled activities and demonstrate deep knowledge in a specific technical area. They have accountability for the work of others and analyse, design and communicate solutions to a range of complex problems.  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. Research propagation requirements for a permaculture system | 1.1 Assess propagation needs according to permaculture system design  1.2 Determine source and availability of propagation material  1.3 Determine numbers of new plants to be produced for the needs of the system and/or for swapping, selling or community needs |
| 2. Develop a propagation plan for permaculture system | 2.1 Determine methods of propagation for each species  2.2 Prepare a propagation plan according to researched outcomes  2.3 Prepare seasonal schedule of propagation activity  2.4 Maintain propagation plan records |
| 3. Implement propagation plan for permaculture system | 3.1 Schedule monthly propagation activity according to propagation plan  3.2 Ensure availability of space in propagating area for propagation activity  3.3 Prepare materials and equipment for propagation work  3.4 Organise propagules and apply pre-treatments according to propagation plan  3.5 Transfer successfully propagated plants into subsequent growing conditions according to propagation and growing plan  3.6 Implement cultural practices for propagated plants according to propagation plan and cultural requirements |
| 4. Maintaining propagated plants to end use | 4.1 Maintain optimal growing and cultural conditions for new plants  4.2 Monitor and treat pest or disease according to permaculture practice  4.3 Remove defective plants according to biosecurity and permaculture procedures  4.4 Apply treatments to new plants according to organic and permaculture procedures  4.5 Ensure plants are pre-conditioned ready for planting/distribution |
| 5. Maintain a healthy and orderly propagation area | 5.1 Maintain hygiene practices in propagation facilities according to workplace hygiene and biosecurity procedures  5.2 Store surplus propagation resources and materials according to workplace procedures  5.3 Maintain records and update propagation plan 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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| 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 |
| AHCPER3X9 Coordinate propagation activities for a permaculture system | AHCPER318 Plan propagation activities for a permaculture system | Changes to Title to correctly reflect job outcome.  Changes to Application, Elements and Performance Criteria for clarity | 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 AHCPER3X9 Coordinate propagation activities for a permaculture system |
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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 coordinated and implemented propagation activities for at least 4 different plants in permaculture system and has:   * researched plant propagation requirements * planned and scheduled plant propagation * implemented propagation plan using at least 4 of any of the following propagation techniques: * cuttings * layering * division * grafting * budding * seed sowing * maintained propagated plants to maturity or distribution * updated records and plant propagation 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:   * permaculture principles and practices related to propagation: * using reclaimed or reused containers (suitably cleaned to avoid cross-contamination) * labelling systems using reclaimed materials * maintaining rare and unusual varieties * using edges and valuing the marginal – unusual plants in micro-climates * sharing and swapping to increase biodiversity and mutual wellbeing * preserving provenance of locally indigenous species * testing and trialling for new plants or resistant varieties * global food plant preservation, including seed saving * permaculture plants and their uses * source of propagation materials, including: * seed banks * tree or shrub * unusual varieties to be traded * varieties purchased for propagation * propagation plan including such considerations as: * seasonal activities * seed saving * needs of the system for plants * mother plant location and frequency of use * schedules and timelines * propagation techniques, including: * cuttings – softwood, hardwood, semi-hardwood, root and tip * layering – stool, aerial and runner * division * grafting – whip and tongue, saddle, wedge, approach and bench * budding – shield and patch * seed sowing * potting media suitable for propagation in a garden setting, such as: * compost and worm casting mixes * sieved and graded sands * blends used for different purposes or different times of the year * sphagnum moss * water (hydroponics or aquaponics) * plant growth, development and nutrition * plant reproduction botany and physiology * maintaining moisture levels in simple systems without causing disease * systems for protecting new plants and seedlings, such as: * polyhouse or shade-house systems, including hoop systems on garden beds * systems using reclaimed materials, such as bag-and-frame cloches, bottle protectors for seedlings, tyre stacks, birdcages and wire baskets * glass houses * shade houses * naturally occurring or planned microclimates * minimal environmental impact waste disposal and composting systems which destroy pathogens * hygiene and biosecurity procedures in the propagation area. |

| 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 propagation tools and equipment * use of personal protective equipment * use of plant propagation materials specified in the performance evidence * use of growing environments for propagation methods * specifications: * use of workplace procedures and processes * access to safety data sheets * timeframes: * according to season specified for plant species.   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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