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 X.0 |

| AHCPER3x3 | Establish a permaculture system |
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| Application | This unit of competency describes the skills and knowledge required to read and interpret permaculture designs, coordinate and schedule resources for the establishment of a permaculture system in either a rural of urban environment.  The unit applies to individuals who work under broad direction and take responsibility for their own work including limited responsibility for the work of others. They use discretion and judgement in the selection and use of available resources and complete routine activities.  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. Prepare to establish a permaculture system | 1.1 Read and interpret design and plans for permaculture system  1.2 Identify site, planting methods and system features  1.3 Select materials, tools, equipment and machinery |
| 2. Coordinate establishment of permaculture system | 2.1 Coordinate and schedule tasks with work team according to design sequence and specifications  2.2 Identify hazards, assess risk and implement controls according to workplace health, safety and environmental procedures  2.3 Maintain a clean and safe work environment according to workplace biosecurity procedures |
| 3. Prepare the area | 3.1 Implement installation/retrofitting of infrastructure according to plans  3.2 Implement earthworks and soil preparation according to plans  3.3 Select and apply soil improvement additives according to design specifications  3.4 Mark out patterns or positions of elements on site according to design |
| 4. Position elements in permaculture system | 4.1 Inspect elements prior to installation against specifications and reject defective elements according to workplace procedures  4.2 Prepare plants to maintain health and vigour before planting  4.3 Position elements according to permaculture design  4.4 Provide elements with post-installation care |
| 5. Monitor establishment of permaculture system | 5.1 Monitor permaculture system and implement maintenance activities during establishment phase  5.2 Identify conditions inhibiting elements from developing and rectify according to system design and permaculture principles  5.3 Finalise works for permaculture establishment according to design |
| 6. Complete establishment of permaculture system | 6.1 Remove and process waste from site works according to workplace and environmental procedures  6.2 Clean, maintain and store tools, equipment and machinery  6.3 Record and report establishment work 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 | * Analyse plans and specifications and consolidate outcomes into scheduling and work team instructions |
| Oral communication | * Clearly explains detailed information on work requirements and standards to work team using appropriate language, tone and pace to ensure understanding |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| AHCPER3X3 Establish a permaculture system | AHCPER307 Establish a rural permaculture system  and  AHCPER308 Establish an urban permaculture system | This unit is an amalgamation of AHCPER307 Establish a rural permaculture system  AHCPER308 Establish an urban permaculture system | Not 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 AHCPER3X3 Establish 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 established a permaculture system in at least one of the following situations:   * urban * rural   There must also be evidence the individual has:   * interpreted permaculture designs and plans and prepared resources * coordinated and scheduled tasks with work team and stakeholders * prepare site for installation of elements of design * installed elements according to schedule * monitored the system during establishment * recorded and reported on completion of permaculture system. | |

| 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:   * principles of permaculture and practices, including: * rural permaculture system design for a farm or small holding * principles of permaculture and practices in an urban environment * Zone and sector analysis * elements and permaculture systems, including: * houses and gardens * community gardens or city farms * school gardens * tractor systems for animals and birds * worm farm systems * integrated animal and plant systems, including animal, fish or bird species used to generate a yield * infrastructure used in urban and rural environments, including: * buildings, sheds and barns * fences and pens * dams, lakes and ponds * water storage and management, including: * water tanks, dams and other storage systems in rural and urban environments * water harvesting from land and structures * soil and subsoil water storage * constructing soil retainers * installing irrigation and drainage systems, including swales, diversion drains, mulch-pit paths * collection and storage of nutrients * coordination and basic management skills, including: * communicating with team members, supervisors, contractors and consultants * identifying work tasks from plans and specifications * scheduling and sequencing work * monitoring work performance against standards and specifications * zone and sector analysis, including: * consideration of the frequency of use and intensity of need of elements in the system * consideration of the spatial requirements of elements in the system * mutual benefit and connections between zones * consideration of the specific needs of the location of the system in terms of climate, access, slope, potential for wild fire, flood, tsunami or other catastrophic force * Consideration of the neighbouring or local environment, its need, products and intrinsic features * establishment of permaculture elements, including: * elements which together form a system * species chosen for their functions in the overall system, including plants, animals and objects * elements chosen for mutual benefit * elements which address important functions including, energy, water, food and fuel * elements which support the needs of the system within the overall design * objectives of the plant system establishment program, including: * finished plant system forms * site appearance * end use * time constraints * plant and animal cultural requirements, preparation for installation and procedures and follow-up care * environment and habitat requirements of animal species * identification of pests, diseases, parasites, and deficiencies that can affect plants and animals during establishment and their treatment * soils and soil amelioration techniques * ecology of the native species, and their value in a permaculture system. |

| 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 for a site proposed for a permaculture system specified in the Performance Evidence or an environment that accurately represents workplace conditions * resources, equipment and materials: * use of tools, equipment and machinery * use of plants, animals and infrastructure elements of the design * use of safety equipment * specifications: * use of workplace procedures and processes * use of manufacturer operating instructions for equipment and machinery * use of design, plans and specifications * access to specific permaculture principles and practices * relationships: * team member and contractors * supervisor * timeframes: * according to time specified schedule.   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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