Modification history

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

| AHCPER4X2 | Plan and implement permaculture works |
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| Application | This unit of competency describes the skills and knowledge required to prepare and plan permaculture works and implement and monitor the plan including scoping of the work, planning on site work health and safety, scheduling equipment, materials and work activity, minimising environmental impact during works, and supervising and monitoring work team activities.  The 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. Prepare for permaculture works | 1.1 Confirm and verify client preferences and contract requirements  1.2 Verify scope of works in permaculture works plan with client  1.3 Verify statutory obligations and permits  1.4 Conduct site visit to confirm details of permaculture works  1.5 Identify health and safety hazards associated with the permaculture works and develop site safety plan  1.6 Verify availability, quantity and costs of plants and materials specified in works plan  1.7 Verify resources, tools and equipment required for permaculture works  1.8 Confirm availability of resources, tools and equipment with suppliers and contractors  1.9 Verify site access and establishment procedures according to works and environmental management plan |
| 2. Plan and schedule permaculture works | 2.1 Source tools and materials required for project  2.2 Allocate and schedule materials, resources and work tasks according to specifications and project timelines  2.3 Determine and plan establishment and maintenance phases of works  2.4 Determine impact of seasonal factors on works and incorporate into staging strategy  2.5 Identify potential impediments to implementation and prepare contingencies  2.6 Collate planning information and prepare a permaculture works plan |
| 3. Implement the permaculture works | 3.1 Implement safety plan for permaculture work site  3.2 Oversee supply and delivery of materials and equipment  3.3 Assemble human resources and allocate team leaders  3.4 Conduct briefing sessions for safety and works activities according to safety and works plans  3.5 Supervise progress of works and implement contingencies for discrepancies |
| 4. Monitor and finalise permaculture works | 4.1 Monitor environmental impact and implement controls according to environmental management plan  4.2 Monitor resource usage and costs according to budget and planned works  4.3 Inspect site on completion and confirm works outcomes against permaculture works plan  4.4 Confirm and sign off completed works with client and other stakeholders  4.5 Report completion of permaculture works 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 |
| Oral communication | * Uses collaborative and inclusive techniques including active listening and questioning and reading of verbal and non-verbal signals to convey, clarify and verify client requirements |
| Numeracy | * Applies financial modelling skills to identify, analyse and evaluate budgetary information, time durations and resource allocations for permaculture system works |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| AHCPER4X2 Plan and implement permaculture works | AHCPER404 Plan and implement permaculture works | Minor changes to Application  Major change to Elements and Performance Criteria for clarity and emphasise planning and implementation components | 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 AHCPER4X2 Plan and implement permaculture 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 planned and implemented permaculture works and has:   * confirmed and verified planned permaculture works and associated resources and constraints * developed a staged implementation plan for permaculture works which must include: * amounts and source of resources and materials * a schedule of resources, materials and work tasks * tools and equipment required * plans for establishment and maintenance phases * seasonal factors and their impact * planned contingencies * a documented works plan * implemented a permaculture works plan including: * communicated works activities and safety requirements to work teams * oversaw supply and delivery of resources * supervised works progress * implemented contingencies for discrepancies * monitored environment impact and controls and resource usage and costs * checked completed works against plan and confirmed and signed off works with client and stakeholders * reported completion according to workplace procedures. | |

| 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 * permaculture works, including: * implementing permaculture designs * following a permaculture works plan as part of a permaculture project * constructing permaculture structures and features * implementing permaculture earthworks * practical understanding of the environmental issues associated with undertaking permaculture works, including: * use of materials that come from sustainable sources * duty of care in conserving site’s natural values * work practices * the use and movement of machinery, storage of materials, removal of weeds and movement of soil and other materials into, across and beyond the site * principles of ecology, including specific plant and animal relationships and habitat requirements * statutory compliance and obligations, including: * compliance with legislation, ordinances, regulations or bylaws relating to the works or the work site * site responsibilities include work health and safety, industrial relations and equal opportunity and employment * site evaluation techniques including methods of analysing soils, waterways and their condition * practical understanding of the advantages and disadvantages of a range of permaculture procedures * selection and use of appropriate combinations of machinery and tools * work health and safety hazards associated with undertaking permaculture works and the controls necessary to remove or minimise risks associated with them * contract documentation including specifications, plans of permaculture works, services, supplies and surveyors documents * scope of works determination * works’ breakdown into tasks * scheduling and time line generation * task specifications and evaluation. |

| 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 permaculture system design or an environment that accurately represents workplace conditions * resources, equipment and materials: * use of tools, equipment, materials and resources * use of site safety equipment * specifications: * use of workplace policies, procedures, processes * use of manufacturer operating instructions for equipment and machinery * use of budget * use of client brief and permaculture system design * access to specific legislation, regulations and codes of practice for work sites * access to environmental management plan * relationships: * client and stakeholders * work team/contractors * timeframes: * according to time specified in schedules.   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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