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 5.0. |
| Release 1 | This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 1.0. |

| AHCSAW503 | Plan conservation earthworks |
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| Application | This unit of competency describes the skills and knowledge required to develop a conservation earthworks plan to control runoff to prevent soil erosion, safely store and distribute water, and rehabilitate eroded or disturbed areas.  The unit applies to individuals who take personal responsibility and exercise autonomy in undertaking complex work. This includes analysing, designing and communicating solutions to sometimes complex problems.  No licensing, legislative or certification requirements are known to apply to this unit at the time of publication. |
| Prerequisite Unit | Nil |
| Unit Sector | Soil and Water Conservation (SAW) |

| 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. Establish client needs | 1.1 Consult with land holder on proposed land use  1.2 Review and discuss the catchment characteristics for proposed land use  1.3 Explain to landholder impact of legislation and policies on project  1.4 Determine budget constraints for project  1.5 Discuss the possible strategies with landholder  1.6 Seek agreement for proposed land use and strategy from landholder according to workplace procedures |
| 2. Develop the strategy to utilise earthworks | 2.1 Check titles and maps to confirm property ownership  2.2 Determine profile of catchment from survey and aerial photographs  2.3 Develop earthworks concept consistent with industry principles and selection criteria  2.4 Establish final water disposal points according to proposed strategy  2.5 Test proposed location of structures by survey and discuss with landholder  2.6 Document preferred strategy |
| 3. Prepare a detailed works plan | 3.1 Assess and select earthworks, structures or measures according to proposed land use and industry standards  3.2 Cost project and develop schedule for plan  3.3 Communicate design of structures and specifications to qualified designer  3.4 Prepare and present a conservation earthworks plan and documentation according to workplace procedures and industry standards |

| 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 | * Organise, evaluate and analyse ideas and information from land use documents, catchment characteristics, titles and maps to determine requirements and ensure compliance with legislation and industry standards |
| Writing | * Demonstrate sophisticated writing skills by selecting appropriate conventions and stylistic devices to express precise meaning in plans and strategies * Prepare documentation and specifications for plans and designs expressing ideas, exploring complex design issues and constructing the documents accurately and succinctly to industry standards |
| Numeracy | * Use highly-developed numeracy skills to interpret complex design ideas and performs calculations with precision and accuracy for inclusion in conservation earthworks plans |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| AHCSAW503 Plan conservation earthworks  Release 2 | AHCSAW503 Plan conservation earthworks  Release 1 | Minor changes to Application and Performance criteria for clarity  Updated Performance Evidence, Knowledge Evidence and Assessment Conditions | 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 AHCSAW503 Plan conservation earthworks |
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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 produced a plan of conservation earthworks that conforms with the following:   * meets client needs * conforms to industry standards * complies with legislation and policy requirements.   There must also be evidence that the individual has:   * consulted and negotiated with client for needs, agreements and approvals * investigated site using: * surveys * aerial photographs * maps * explained to landholder the impact of legislation and policies on project * developed a strategy to protect natural areas and utilise earthworks according to industry principles and regulatory requirements * prepared detailed project costing according to client budget * prepared detailed works plans and communicated design requirements to designer. | |

| 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:   * environmental, planning and groundwater legislation and the impact on development sites and conservation earthworks planning * environmental, planning and earthwork construction standards and Codes of Practice relevant to planning conservation earthworks projects * earthwork structures used for * erosion control and design principles * natural areas protection and rehabilitation principles * soils and soil formation and their protection * levels and levelling survey plans and titles * earthmoving principles * total catchment issues * land use and land development strategies * environmental issues * how to manage peak water flows * subsurface and surface drainage principles and systems * limitations of design aids provided for industry. |

| Assessment Conditions |
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| Assessment of skills must take place under the following conditions:   * physical conditions: * skills must be demonstrated on a landholder site or an environment that accurately represents workplace conditions * resources, equipment and materials: * computers with planning and design tools and resources * specifications: * use of workplace policies, procedures and processes for planning and design * use of site land use, maps, plans and titles * access to legislation, regulations and industry codes of practice * relationships: * landholder   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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