Modification history

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| Release | Comments |
| Release 2 | This version released with AHC Agriculture, Horticulture, Conservation and Land Management Training Package Version 4.0. |
| Release 1 | This version released with AHC Agriculture, Horticulture, Conservation and Land Management Training Package Version 1.0. |

| AHCDRG302 | Measure drainage system performance |
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| Application | This unit of competency describes the skills and knowledge required to measure, record and report on soil moisture, salinity and water table depth to determine system performance and efficiency.  The unit applies to individuals who measure drainage system performance under broad direction and take responsibility for their own work.  No occupational licensing, legislative or certification requirements apply to this unit at the time of publication. |
| Prerequisite Unit | Nil |
| Unit Sector | Drainage (DRG) |

| 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 work | 1.1 Confirm the location of the drainage system  1.2 Select materials, tools, equipment and machinery  1.3 Carry out pre-operational and safety checks on tools, equipment and machinery  1.4 Identify potential hazards and risks and implement safe working practices to manage risks  1.5 Select, fit, use and maintain personal protective equipment applicable to the task |
| 2. Assess drainage and collection systems | 2.1 Determine damaged or broken components  2.2 Inspect areas for signs of water pooling and problems  2.3 Take measurements to determine drainage performance  2.4 Identify and record factors external to the system which may cause interference  2.5 Minimise environmental impacts of drainage system performance measurement activities |
| 3. Record and report system performance status | 3.1 Record water quality and quantity  3.2 Record water table depth, soil moisture and salinity  3.3 Document strategies that minimise the negative environmental impacts and maximise the positive impacts of the drainage system  3.4 Report system performance |

| 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 | * Interpret textual information from a range of sources to identify relevant and key information about workplace operations |
| Writing | * Document drainage system performance |
| Oral communication | * Use clear language to report drainage system performance |
| Numeracy skills | * Measure drainage system performance * Record water quality and quantity, water table depth, soil moisture and salinity |
| Navigate the world of work | * Recognise and follow workplace requirements, including safety requirements, associated with own role and area of responsibility |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| AHCDRG302 Measure drainage system performance  Release 2 | AHCDRG302 Measure drainage system performance  Release 1 | Minor changes to performance criteria and foundation skills | 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 AHCDRG302 Measure drainage system performance |
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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 measured drainage system performance on at least one occasions and has:   * identified adverse environmental impacts of drainage systems * identified and applied appropriate remedial action * identified and corrected system problems * identified hazards and implemented safe work procedures * used computers or technology to record and report drainage system data. | |

| 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:   * how to measure a water table and salinity * measuring and monitoring procedures for factors contributing to drainage system performance * positive and negative environmental impacts of drainage systems * soil moisture measurement procedures * the environmental role of drainage systems * water quality monitoring methods and techniques. |

| Assessment Conditions |
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| Assessment of skills must take place under the following conditions:   * physical conditions: * a workplace setting or an environment that accurately represents workplace conditions * resources, equipment and materials: * drainage system equipment * drainage system performance measuring tools and equipment * computer or technology for recording and reporting data * personal protective equipment applicable to measuring drainage system performance * specifications: * measuring and recording procedures * relationships: * supervisor * timeframes: * according to job requirements.   Assessors of this unit must satisfy the requirements of assessors in applicable vocational education and training legislation, frameworks and/or standards. |

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