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

| AHCIRG217 | Assist with pressurised irrigation operations |
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| Application | This unit of competency describes the skills and knowledge required to assist with installing, operating and maintaining pressurised irrigation systems. These systems use sprinklers and generally use glued PVC pipe.  The unit applies to individuals who assist with pressurised irrigation operations under general supervision with limited autonomy and accountability.  No occupational licensing, legislative or certification requirements apply to this unit at the time of publication. |
| Prerequisite Unit | Nil |
| Unit Sector | Irrigation (IRG) |

| 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 Read work instructions and confirm with supervisor activity to be undertaken, including identifying potential hazards and risks and implementing safe working practices to minimise risks to self and others  1.2 Select appropriate materials, tools, equipment and machinery  1.3 Select, fit and use personal protective equipment and clothing applicable to the task  1.4 Identify the site for installation of the irrigation system |
| 2. Install irrigation components | 2.1 Prepare the site for installation works  2.2 Lay irrigation components out  2.3 Dig or tidy trenches where required  2.4 Add or insert system components  2.5 Position and secure lines  2.6 Assist with fitting pumps and valves |
| 3. Complete installation activities | 3.1 Check the irrigation system for leaks or blockages  3.2 Identify and report problems and anomalies  3.3 Clean, maintain and store tools, equipment and machinery  3.4 Collect waste and dispose of or recycle  3.5 Record workplace information in the appropriate format |
| 4. Carry out start up and shutdown procedures as directed | 4.1 Follow start-up sequence  4.2 Shut down system components in sequence  4.3 Drain system  4.4 Record irrigation activity |
| 5. Assist with system maintenance | 5.1 Check sprinklers for serviceability and output  5.2 Maintain delivery components  5.3 Check water supply and pumping system periodically, where required  5.4 Keep maintenance records up to date |

| 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 | * Record irrigation system installation, activity and maintenance |
| Oral communication | * Use clear language to confirm work activity and report irrigation system incorrect operation |
| Numeracy skills | * Identify irrigation system component part numbers |
| 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 |
| AHCIRG217 Assist with pressurised irrigation operations  Release 2 | AHCIRG217 Assist with pressurised irrigation operations  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 |
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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 assisted with pressurised irrigation operations on at least one occasion and has:   * assembled and joined irrigation system components * carried out basic maintenance tasks * carried out irrigation operating tasks * completed installation work * fixed identified faults * followed directions to operate pumps, filters and valves * looked for leaks and faulty sprinklers * prepared materials, tools and equipment * recognised and reported faults * undertaken site preparation tasks as directed. | |

| 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 and practices of pressurised irrigation systems * characteristics and operation of replaceable components of sprinkler irrigation systems * environmental impacts of irrigation from ground or underground source * installation techniques and procedures * irrigation controllers * irrigation pipes, types and sizes * irrigation times to deliver sufficient volume without over watering * operation of pressurised irrigation system * set out procedures * signs of stress in plants as well as the signs of over and under watering * sprinkler irrigation components and their function * sprinkler spacing, coverage and pressure * system malfunctions and their likely causes * types of sprinklers. |

| 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: * work instructions and workplace procedures applicable to assisting with pressurised irrigation operations * pressurised irrigation system maintenance tools and equipment * personal protective equipment applicable to assisting with pressurised irrigation operations * specifications: * 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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