Modification history

|  |  |
| --- | --- |
| Release | Comments |
| Release 1 | This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 7.0. |

| AHCLSC3XX | Set out site for construction works |
| --- | --- |
| Application | This unit of competency describes the skills and knowledge required to set out a site for construction works, planning, preparing, locating and marking out construction works, establishing survey benchmarks and verifying site levels in accordance with site plans and specifications. This may be done in advance of proposed works or in conjunction with construction works already being carried out.  The unit applies to individuals who set out site for construction works under broad direction, and take responsibility for their own work and for the quality of the work of others.  No licensing, legislative or certification requirements apply to this unit at the time of publication. |
| Prerequisite Unit | Nil |
| Unit Sector | Landscape (LSC) |

| Elements | Performance Criteria |
| --- | --- |
| Elements describe the essential outcomes. | Performance criteria describe the performance needed to demonstrate achievement of the element. |
| 1. Plan and prepare work | 1.1 Interpret and compare site plans and specifications with other available plans  1.2 Identify potential hazards and risks, and implement safe working practices to manage risks  1.3 Select tools and equipment required for setting out construction works, and check for safe operation  1.4 Consider environmental impact of proposed construction works in interpreting site plans |
| 2. Locate and mark out position of construction works | 2.1 Locate existing site features from the site plan  2.2 Locate position of proposed construction works  2.3 Using the correct scale transfer scale measurements of lines, shapes, angles and dimensions from the site plan to site  2.4 Mark out the shape of proposed construction works on site |
| 3. Establish benchmark for construction works | 3.1 Identify site datum from plans and specifications to ensure all existing and proposed construction works can be linked by survey equipment  3.2 Find or establish a suitable benchmark for site works according to site plans or specifications  3.3 Set out correct reduced levels on site in comparison to benchmark based on plans and specifications  3.4 Interpret reduced levels in relation to a benchmark  3.5 Calculate differences in heights on site or between reduced levels provided on a plan |
| 4. Take and verify site levels | 4.1 Set up levelling instrument in a position to take, record and verify levels  4.2 Describe appropriate procedures to follow if a levelling instrument is not accurate  4.3 Take and record site readings, and verify readings are correct according to site plans and specifications |
| 5. Complete work | 5.1 Clean, maintain and store tools and equipment in required location  5.2 Identify and report unserviceable tools and equipment according to workplace procedures  5.3 Record site set out work activities 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. | |
| --- | --- |
| Skill | Description |
| Writing | * Use clear language and accurate industry terminology to complete work records |
| Oral communication | * Use clear language and industry standard terminology to report tool and equipment unserviceability |
| Numeracy | * Use and interpret scale rulers, read leveling instruments, take and read measurements and calculate differences between levels * Set out geometric shapes |

|  |  |  |  |
| --- | --- | --- | --- |
| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| AHCLSC3XX Set out site for construction works  Release 1 | AHCLSC301 Set out site for construction works  Release 1 | Minor changes to application  Major changes to performance criteria  Foundation skills added  Assessment requirements updated | Not equivalent |

|  |  |
| --- | --- |
| 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 AHCLSC3XX Set out site for construction works |
| --- | --- |
| 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 set out site for construction works on at least one occasion and has:   * interpreted site plans and specifications * identified and reported workplace health and safety hazards * selected, used and maintained tools and equipment required for setting out construction works * used mathematical and geometrical principles to mark out a site for construction work * used several types of surveying instruments * established a benchmark on site in relation to reduced levels on plans and specifications * set out site to reduced levels indicated on plan in relation to benchmark * taken and verified site levels compared to site plan * reported unserviceable tools and equipment and recorded work activities. | |

| Knowledge Evidence |
| --- |
| 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:   * workplace requirements applicable to health and safety in the workplace for setting out site for construction works * principles and practices of site set out for landscape works, including: * how other plans may be referred to in assisting setting out a site * how to determine if other plans may be referred when setting out a site * mathematical and geometrical principals relevant to marking out sites * tools, equipment and survey instruments relevant to setting out site for sites construction works and their use. |

| Assessment Conditions |
| --- |
| Assessment of the skills in this unit of competency must take place under the following conditions:   * physical conditions: * a workplace setting or an environment that accurately represent workplace conditions * resources, equipment and materials: * tools and equipment, and survey instruments applicable to setting out sites for construction work * other plans applicable to setting out sites for construction work * specifications: * workplace requirements applicable to health and safety in the workplace for setting out site for construction works * site plans and specifications applicable to setting out sites for construction work * timeframes: * according to job requirements.   Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards. |

|  |  |
| --- | --- |
| Links | Companion Volumes, including Implementation Guides, are available at VETNet: <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72> |