



Australian Government

AHCLSC311 Set out site for construction works

Release: 1

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Modification History

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

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.

Pre-requisite Unit

Nil

Unit Sector

Landscape (LSC)

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
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

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.4 Interpret environmental impact of proposed construction works in conjunction with site plans
2. Locate and mark out position of construction works	2.1 Locate existing site features from site plan 2.2 Locate position of proposed construction works 2.3 Using correct scale, transfer scale measurements of lines, shapes, angles and dimensions from site plan to site 2.4 Mark out 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 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 benchmark 3.5 Calculate differences in heights on site or between reduced levels provided on plan
4. Take and verify site levels	4.1 Position levelling instrument 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
AHCLSC311 Set out site for construction works	AHCLSC301 Set out site for construction works	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>

Assessment Requirements for AHCLSC311 Set out site for construction 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 set out a 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
- 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
- used at least three types of surveying instruments
- 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:

- 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
- workplace requirements applicable to health and safety in the workplace for setting out site for construction works.

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.

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