



Australian Government

Department of Education, Employment and Workplace Relations

AHCLSC301A Set out site for construction works

Release: 1

AHCLSC301A Set out site for construction works

Modification History

Not Applicable

Unit Descriptor

Unit descriptor	This unit covers the process of setting out a site for construction works in accordance with site plans and specifications and defines the standard required to: interpret site plans and specifications; locate and mark out position of construction works; establish datum point and survey benchmarks on site; and take and verify site levels.
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Application of the Unit

Application of the unit	This unit applies to the setting out of a site for construction work in accordance with site plans and specifications. These tasks may be done in advance of proposed works or in conjunction with construction works already being carried out.
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Licensing/Regulatory Information

Not Applicable

Pre-Requisites

Prerequisite units	

Employability Skills Information

Employability skills	This unit contains employability skills.
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Elements and Performance Criteria Pre-Content

Not Applicable

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA

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1. Interpret site plans and specifications	<p>1.1. The various components of the site plan and specifications are identified.</p> <p>1.2. Site plan and specifications are compared with other available plans to ensure accuracy of information.</p> <p>1.3. Equipment required for the setting out of construction works is determined from the site plan and specifications.</p> <p>1.4. Environmental impact of proposed construction works is considered in the interpretation of site plans.</p> <p>1.5. Occupational Health and Safety (OHS) hazards associated with the setting out of construction works are assessed for potential risks, and controls implemented accordingly.</p>
2. Locate and mark out position of construction works	<p>2.1. Existing site features are located from the site plan.</p> <p>2.2. Position of proposed construction works is located from the site plan.</p> <p>2.3. Scale measurements of lines, shapes, angles and dimensions are transferred from the site plan to site.</p> <p>2.4. The shape of proposed construction works is marked out on site according to the site plan and specifications.</p>
3. Establish datum point and survey benchmarks on site	<p>3.1. Datum point is established to ensure all existing and proposed construction works can be linked by survey equipment.</p> <p>3.2. Survey benchmarks are selected and established on positions/structures on site according to site plan and specifications.</p>
4. Take and verify site levels	<p>4.1. Levelling equipment is set up and checked for accuracy of readings.</p> <p>4.2. Instruments, which are out of specification, are adjusted accordingly.</p> <p>4.3. Levels are taken, verified and recorded in accordance with established datum point and survey benchmarks.</p> <p>4.4. Levelling equipment is cleaned, maintained and stored according to manufacturer instructions.</p>

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit.

Required skills

- implement mathematical and geometrical principles when locating and marking out a site for construction works
- use a range of surveyors instruments
- use literacy skills to read, interpret and follow organisational policies and procedures, follow sequenced written instructions, record information collected accurately and legibly, and select and apply procedures for a range of tasks
- use oral communication skills/language competence to fulfil the job role as specified by the organisation, including questioning techniques, active listening, clarifying information and consulting with supervisors as required
- use interpersonal skills to work with and relate to people from a range of cultural, social and religious backgrounds and with a range of physical and mental abilities.

Required knowledge

- interpretation of symbols and use of a legend on site plans and specifications, particularly in relation to benchmarks and the location of existing features
- understanding of compass directions and how to locate North from a site plan
- an awareness of other plans that may be referred to when setting out a site for construction works
- an awareness of common levelling and surveying terms
- environmental awareness associated with the preparation for construction works to ensure that the impact on the environment is minimal when works are implemented
- OHS hazards associated with setting out a site for construction works.

Evidence Guide

EVIDENCE GUIDE	
The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.	
Overview of assessment	
Critical aspects for assessment and evidence required to demonstrate competency in this unit	<p>The evidence required to demonstrate competency in this unit must be relevant to workplace operations and satisfy holistically all of the requirements of the performance criteria and required skills and knowledge and include achievement of the following:</p> <ul style="list-style-type: none"> • interpret site plans and specifications • locate and mark out position of construction works • establish datum point and survey benchmarks on site • take and verify site levels.
Context of and specific resources for assessment	Competency requires the application of work practices under work conditions. Selection and use of resources for some worksites may differ due to the regional or enterprise circumstances.

Range Statement

RANGE STATEMENT	
The range statement relates to the unit of competency as a whole.	
Set out may include:	<ul style="list-style-type: none"> • the range of site plans and specifications, measuring and surveying equipment.

Unit Sector(s)

Unit sector	Landscape
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Co-requisite units

Co-requisite units		

Competency field

Competency field	
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