



Australian Government

Department of Education, Employment and Workplace Relations

AHCLSC501A Survey and establish site levels

Release: 1

AHCLSC501A Survey and establish site levels

Modification History

Not Applicable

Unit Descriptor

Unit descriptor	This unit covers surveying and establishing site levels and defines the standard required to: determine the survey items from a client brief; record the levels of survey items and site features; orient the landscape site; map the levels on a scale plan.
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Application of the Unit

Application of the unit	This competency standard applies to landscapers and landscape designers and covers the process of undertaking site surveys, mapping levels and issues of levels in gardens and using a magnetic compass.
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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
1. Undertake the site survey	1.1. Survey items are determined from the existing plan or client brief. 1.2. Survey items and relevant landscape features are measured. 1.3. Measurements are taken and reduced with reference to the design. 1.4. Measurements are checked and recorded according to industry practice and documented procedures.
2. Read maps and plans	2.1. Current magnetic declinations and magnetic bearings are taken. 2.2. Differences between true and magnetic north and place north points on plans are determined. 2.3. Magnetic bearings to true north points are transferred on plans.
3. Record site details	3.1. Orientation and levels are recorded on a site plan. 3.2. Scale plan is produced for a garden design. 3.3. Plan of site is presented to the client.

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

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

Required skills

- use survey equipment
- map levels and issues of levels in gardens
- use and care for relevant surveying equipment
- booking and logging results
- analyse surveying and levelling results
- determine surveying protocols
- capture survey data
- maintain data records
- exhibit professional work practices
- produce scale drawings for designs and costings
- use literacy skills to fulfil job roles as required by the organisation. The level

REQUIRED SKILLS AND KNOWLEDGE

of skill may range from reading and understanding documentation to completion of written reports

- use oral communication skills/language competence to fulfil the job role as specified by the organisation including questioning, active listening, asking for clarification, negotiating solutions and responding to a range of views
- use numeracy skills to estimate, calculate and record complex workplace measures
- use interpersonal skills to work with others and relate to people from a range of cultural, social and religious backgrounds and with a range of physical and mental abilities.

Required knowledge

- current magnetic declinations and take magnetic bearings
- transference of magnetic bearings to true north points on plans
- terminology of surveying and levelling
- different techniques for dealing with different garden shapes
- differences between true and magnetic north and place north points on plans
- map and plan reading.

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

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:

- determine the survey items from a client brief
- record the levels of survey items and site features
- orient the landscape site
- map the levels on a scale plan.

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.

Survey equipment may include:

- GPS instruments
- automatic levels
- laser levels
- Staffs
- Magnetic compass

Unit Sector(s)

Unit sector

Landscape

Co-requisite units

Co-requisite units		

Competency field

Competency field	
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