



Australian Government

Department of Education, Employment and Workplace Relations

BCG1008A Use simple levelling devices

Release: 1

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Modification History

Not applicable.

Unit Descriptor

Not applicable.

Application of the Unit

Not applicable.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Not applicable.

Employability Skills Information

Not applicable.

Elements and Performance Criteria Pre-Content

Not applicable.

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Element

Performance Criteria

1 Plan and prepare work

1.1 OH&S requirements recognised and adhered to in accordance with application tasks and workplace environment.

1.2 Requirements of job identified from drawings or instructions.

- 1.3 Appropriate personal protective equipment selected, correctly fitted and used.
- 1.4 Tools and equipment selected consistent with job requirements, checked for serviceability and any faults reported to supervisor.
- 1.5 Quality Assurance requirements recognised and adhered to in accordance with company's construction operations.
- 2 Set up and use levelling device
 - 2.1 Heights to be transferred, identified from given instructions or drawings.
 - 2.2 Work assembled and filled with water to required level with air bubbles removed.
 - 2.3 Height transferred to required locations to a tolerance of + or - 5mm over 3 metres.
- 3 Transfer heights with straight edge and spirit level
 - 3.1 Heights to be transferred identified from given instructions/drawings/given marked level.
 - 3.2 Height transferred to required location to + or - 5mm over 3 metres.
- 4 Maintain given level or specified slope with boning rods
 - 4.1 Heights of each end of line to be boned established to given levels.
 - 4.2 End of boning rods securely fixed to required heights.
 - 4.3 Heights of intermediate points sighted and marked with boning rods to a tolerance of + 10mm.
- 5 Clean up
 - 5.1 Tools and equipment cleaned, maintained and stored.

Required Skills and Knowledge

Not applicable.

Evidence Guide

Competency is to be demonstrated by carrying out the effective application of the different types of levelling devices listed within the range statement relative to the work orientation.

(1) Critical Aspects of Evidence

It is essential that competence is observed in the following aspects:

demonstrate compliance with Occupational Health and Safety regulations applicable to workplace operations

indicate compliance with organisational policies and procedures including Quality Assurance requirements

carry out correct procedures prior to and during application of levelling and boning processes

demonstrate safe and effective handling and operational use of levelling device

indicate care in accurately transferring levels to other locations

interactive communication with others to ensure safe and effective levelling operations.

(2) Pre-requisite Relationship of Units

Nil

(3) Underpinning Knowledge and Skills

Knowledge

A knowledge of:

workplace and equipment safety requirements

hand tools

measurement and calculation

Quality Assurance

range of levelling devices

horizontal/vertical concepts

Skills

The ability to:

work safely to instructions

measure

use hand tools

communicate effectively

(4) Resource Implications

The following resources should be made available:

general construction materials appropriate to levelling

hand tools appropriate to levelling and lining

equipment appropriate to the activity processes

suitable work area appropriate to the activities

suitable plans/drawings and specification

(5) Method of Assessment

Competency shall be assessed while work is undertaken under direct supervision with regular checks, but may include some autonomy when working as part of a team.

Competency in this unit should be determined concurrently, based on integrated project work.

Assessment may be by intermittent checking at the various stages of the job application in accordance with the performance criteria, or may be at the completion of each process.

(6) Context of Assessment

Competency shall be assessed in the workplace or simulated workplace environment in accordance with work practices and safety procedures.

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Range Statement

This unit applies to using simple levelling devices to carry out basic exercises in transferring levels and/or maintaining a line of a slope.

Levelling and lining devices include:

water level

spirit level

boning rods

Heights or levels may be given by:

drawing/sketch indicating mark

verbal or written instruction indicating level or mark

datum/survey peg fixed into ground

chalk or nail mark on paved/concrete surface

mark on vertical surface

Associated tools and equipment include:

string line

wooden/steel pegs

straight edge

hammer

chalk line

Personal protective equipment may include:

overalls

boots

hard hat/cap

safety glasses

dust jacket

masks/respirators

Work may be carried out under supervision and in a team situation or individually.

Reporting of faults may be verbal or written.

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Unit Sector(s)

Not applicable.