



Australian Government

**Assessment Requirements for
CPCCOM3006 Carry out levelling
operations**

Release: 1

Assessment Requirements for CPCCOM3006 Carry out levelling operations

Modification History

Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.

Supersedes and is equivalent to CPCCCM3006 Carry out levelling operations. Updated to reflect current industry terminology, tools and equipment.

Performance Evidence

To demonstrate competency, a candidate must meet the performance criteria of this unit by carrying out levelling operations over a minimum of two change points to:

- identify site hazards
- establish approximate distances and transfer of reduced levels
- measure and record:
 - ground levels at respective critical set-out points
 - heights or levels for building components
 - heights or levels of ceilings and floors
 - slab or pad levels for placement of steel columns or masonry piers
- determine shooting levels for:
 - concrete slabs
 - excavation or footings
- transfer levels or heights for construction projects
- calculate rise and fall and height from collimation.

Knowledge Evidence

To be competent in this unit, a candidate must demonstrate knowledge of:

- compliance requirements of the Australian Standards relevant to carrying out levelling operations
- workplace quality policies and standards relevant to carrying out levelling operations
- safety requirements for carrying out levelling operations
- basic construction and levelling processes
- construction plans, symbols and construction terminology relevant to carrying out levelling operations
- processes for interpreting engineering drawings and sketches for carrying out levelling operations

- processes for setting out construction tasks for levelling operations
- project quality requirements for carrying out levelling operations
- site isolation and traffic control responsibilities and authorities
- levelling techniques commonly used in construction work
- levelling activities:
 - establishing approximate distances and transfer of reduced levels
 - locating site hazards and services
 - measuring and recording ground levels at respective critical set-out points
 - measuring and recording heights or levels for installing building components
 - measuring and recording heights or levels of ceilings and floors
 - measuring and recording slab or pad levels for placement of steel columns or masonry piers
 - taking levels for concrete slabs
 - taking levels for excavation or footings
 - calculating rise and fall and height from collimation
- types of tools and equipment used for carrying out levelling operations:
 - spirit levels
 - straight edge
 - automatic/optical levelling devices
 - laser levels
 - water level
- processes for checking operation and tolerances:
 - two peg test for automatic level
 - reverse readings for spirit level
- types of level readings:
 - negative readings
 - datum
 - backsight
 - foresight
 - intermediate sight
 - plumb
- maintenance of levelling devices:
 - authorised operator servicing and minor replacements
 - cleaning
 - monitoring, recording and reporting faults.

Assessment Conditions

Assessors must meet the requirements for assessors contained in the Standards for Registered Training Organisations.

This unit must be assessed in the workplace or a close simulation reflecting workplace conditions and standards, materials, equipment, activities, responsibilities, procedures, safety requirements and environmental considerations.

Links

Companion volumes to this training package are available at the VETNet website - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>