



**Australian Government**

**Assessment Requirements for  
CPCCCM3006 Carry out levelling  
operations**

**Release: 1**

# Assessment Requirements for CPCCCM3006 Carry out levelling operations

## Modification History

Release 1.

This version first released with CPC Construction, Plumbing and Services Training Package Version 2.

Revised unit of competency. Replaces superseded equivalent unit CPCCCA3023A Carry out levelling operations.

## Performance Evidence

A person demonstrating competency in this unit must satisfy all of the elements, performance criteria and foundation skills of this unit. The person must also transfer levels and record differences in height, undertaking at least one open traverse and one closed traverse using both the rise and fall method and the height of collimation method, on three of the following types of levelling operations:

- establishing approximate distances and transfer of reduced levels
- locating power, water, gas and telecommunications services
- measuring and recording ground levels at respective critical set-out points
- measuring and recording heights or levels for installing joinery
- measuring and recording heights or levels of ceilings and floors
- measuring and recording or checking levels in drainage
- measuring and recording slab or pad levels for placement of steel columns or masonry piers
- positioning offsets and recovery pegs for construction projects or for use in determining quantity from calculations.
- shooting levels for concrete slabs
- shooting levels for excavation or footings
- transferring levels or heights for formwork.
- calculating rise and fall and height from collimation.

In doing the above work, the person must:

- locate, interpret and apply information, including standards and specifications that apply to specific levelling tasks
- comply with site safety plan, health and safety regulations, and state and territory legislation applicable to workplace operations
- comply with organisational policies and procedures, including quality requirements
- safely and effectively use tools and equipment
- communicate and work effectively and safely with others, including using agreed communication signals

- set up and test levelling equipment
- confirm accuracy of the readings taken
- accurately record results of each levelling procedure according to organisational requirements
- calculate distances using an optical levelling instrument and levelling staff.

## Knowledge Evidence

A person demonstrating competency in this unit must demonstrate knowledge of:

- reasons for making measurements of line, level and plumb in construction projects
- basic construction and levelling processes relevant to levelling tasks specified in the performance evidence
- construction plans, symbols and construction terminology relevant to levelling procedures
- contents of and terms used in job safety analyses (JSA) and safe work method statements (SWMS) for tasks
- characteristics, technical capabilities and limitations of different types of levelling devices
- levelling techniques commonly used in construction work
- processes for interpreting engineering drawings and sketches
- processes for setting out construction tasks relating to levelling operations
- project quality requirements relevant to levelling work
- site and equipment safety requirements relevant to levelling work
- site isolation and traffic control responsibilities and authorities.

## Assessment Conditions

Suitable assessment of performance requires:

- equipment and tools:
  - as listed in the range of conditions
- specifications:
  - job requirements
  - health and safety requirements
  - manufacturer specifications
  - safety data sheets (SDS)
  - SWMS
  - workplace and relevant work site procedures
- physical conditions:
  - construction work site
- relationship with team members and supervisor:
  - work must be undertaken as part of a team
- timeframe:
  - according to job requirements.

## Assessor requirements

As a minimum, assessors must satisfy the assessor requirements in the Standards for Registered Training Organisations (RTOs) current at the time of assessment.

## Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>