



Australian Government

Assessment Requirements for CPCCOM3006 Carry out levelling operations

Release: 2

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Modification History

- Release 2 Updated reference to general construction induction training program.
- 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>