



Australian Government

Assessment Requirements for CPCCB5009 Identify services layout and connection methods for Type B and C constructions

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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 CPCCBC5009A Identify services layout and connection methods to medium rise construction projects. Change to title. Updated to meet the Standards for Training Packages 2012.

Performance Evidence

To demonstrate competency, a candidate must meet the elements and performance criteria of this unit by determining, documenting and conveying layout and connection methods to a range of services appropriate to Type B and C constructions, which may be undertaken over several projects and must include:

- water supply
- sewerage and drainage disposal
- mechanical ventilation and air distribution
- hot water systems
- natural and artificial lighting
- fire protection
- electrical and electronic.

In doing this, the candidate must:

- apply design concepts and principles relating to performance of service installations
- identify typical faults and problems and take remedial action
- comply with the National Construction Code (NCC) and Australian standards.

Knowledge Evidence

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

- relevant government building legislation, codes and standards
- the NCC
- project drawings, details and specifications
- organisational work practices and procedures
- manufacturer specifications and installation instructions
- properties, characteristics and limitations of specified materials, products and components

- service installation terminology and definitions
- water supply:
 - single and two-stage pumping for multi-function and single function
 - tank storage supply relative to the public water supply and reservoir heights
 - town supply
- sewage connection and layout:
 - graded or vertical discharge pipes
 - inspection shafts and overflow relief gullies (ORGs)
 - local authority sewerage drainage system
 - septic or biochemical treatment unit
- methods of mechanical ventilation:
 - air conditioning applications
 - air distribution, including mechanical ventilation requirements for enclosed car parks
 - air filtration, including air filters, ducting and main filter types
 - mechanical ventilation
- hot water system:
 - area to be serviced
 - energy sources available
 - height of installation
 - number of outlets
 - type of occupancy
 - type of system
- lighting:
 - emergency lighting
 - natural and artificial lighting
- electronic cabling factors:
 - access for maintenance, repair and extension
 - categories of cabling:
 - data
 - lift controls
 - power supplies
 - telecommunications
 - layout of equipment:
 - computers
 - telephones
 - safe guards
 - type of service.

Assessment Conditions

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

Assessment can be undertaken in the workplace or in a simulated workplace environment.

A simulated environment is one that realistically replicates workplace conditions, materials and equipment, interactions with others and workplace irregularities, and which meets industry standards for safety and environmental practices.

Candidates must have access to:

- relevant state and territory building legislation codes and standards
- the NCC
- manufacturer's specification and installation instructions
- project plans, details and specifications
- technology, equipment and applications to access, extract, integrate, compile and produce information and drawings necessary to identify services layout and methods of connection.

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>