



Australian Government

Assessment Requirements for CPCPMS5012 Design sound attenuated hydraulic services

Release: 2

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Modification History

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| Release 2 | This version first released with CPC Construction, Plumbing and Services Training Package Release 5.1.

Knowledge Evidence formatted for clarity. |
| Release 1 | This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.

Supersedes and is equivalent to CPCPMS5012A Design sound attenuated hydraulic services. Updated to meet the Standards for Training Packages 2012. |

Performance Evidence

To demonstrate competency, a candidate must meet the performance criteria for this unit by:

- designing an approved sound attenuated system for an approved sanitary plumbing system and a domestic drinking water system installation incorporating a pumping system to a building 29 floors in height or greater.

The design must include:

- clipping details
- pipe enclosures details
- insulation of pipework details
- vibration elimination method details
- documenting a hydraulic works specification for the above design including:
 - clipping procedures and products to be used
 - pipe enclosure and duct work requirements relating to sound attenuation
 - pumping details including sound attenuation methods, vibration methods and products
 - pipe insulation details and products to be used
 - sound attenuated hydraulic services calculations for the design.

Knowledge Evidence

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

- application of relevant Australian standards and codes, the National Construction Code (NCC), manufacturer specifications, and other relevant standard operating procedures (SOPs) relevant to the sector

- industry terminology and definitions used in the design of sound attenuated hydraulic services for all classes of building
- drafting principles
- design principles and concepts
- relevant quality assurance requirements
- relevant Environment Protection Authority (EPA) requirements
- sustainability principles and concepts
- nature of materials used and effects of performance under various conditions
- principles of technology in the design of sound attenuated hydraulic services
- work health and safety (WHS) requirements, including relevant statutory regulations, codes and standards
- cost-benefit analysis considerations
- noise rating of habitable areas, including compliance requirements
- types of noise generation:
 - applications of system calculations:
 - sound criteria for habitable rooms
 - noise insulation characteristics of materials
 - sound transmission values of plumbing pipework and building materials
- types of pumped hydraulic systems
- pipe supports cover fixings that do not impinge on sound attenuation of the hydraulic service:
 - materials for sound attenuated hydraulic services:
 - commissioning schedule information
- operation and maintenance manuals.

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 using realistic workplace conditions, materials, 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>