



Australian Government

Assessment Requirements for CPCPMS5010 Design steam generation and distribution systems

Release: 1

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Modification History

- Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0
- Supersedes and is equivalent to CPCPMS5010A Design steam generation and distribution systems. 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, sizing and documenting an approved layout for a multi-level building with a minimum of 100 beds, such as a hospital, that incorporates a commercial steam-fed laundry.

The design must:

- meet all regulatory, manufacturer and Australian and New Zealand Standard requirements for steam generation and distribution systems
- incorporate a specification covering all works
- incorporate sustainability principles and concepts.

Knowledge Evidence

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

- common terminology and definitions used in design of steam generation and distribution systems for all classes of building
- manufacturer specifications, including hazards identified in relation to devices and systems used
- work health and safety (WHS) requirements, including relevant statutory regulations, codes and standards
- principles of technology in the design of steam generation and distribution systems
- terms, including relevant Australian Standard and code definitions, manufacturer terms and naming conventions
- statutory and regulatory requirements and relevant Australian Standards and codes
- plans and specifications, and sizing and documenting layout of steam generation and distribution systems for residential, commercial and industrial applications
- principles and properties of steam systems
- types of steam and steam quality

- sustainability principles and concepts
- cost–benefit analysis of steam designs
- performance requirements, including steam generation and consumption and steam and pressure quality established using relevant Australian Standards, codes and manufacturer information.
- use of steam appliances
- types of steam circuits
- steam trap types and their operation
- types of insulation protection and applications.

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>