



Australian Government

CPCCPB3015 Install acoustic and thermal environmental protection systems

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 equivalent to CPCCPB3015A Install acoustic and thermal environmental protection systems. Updated to meet the Standards for Training Packages 2012.

Application

This unit of competency specifies the skills and knowledge required to install wall and ceiling systems that satisfy environmental requirements in terms of acoustic ratings and energy efficiency ratings in accordance with sustainable building practices.

It includes planning and preparation for work, installation of insulation to wall cavities and plenum, installation of acoustic systems and completion of post work clean-up activities.

A person working at this level would be expected to take responsibility for organising and completing tasks assigned to them without close supervision.

Completion of the general construction induction training program specified by the model Code of Practice for Construction Work is required for any person who is to carry out construction work. Achievement of *CPCWHS1001 Prepare to work safely in the construction industry* meets this requirement.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

CPCCWHS2001 Apply WHS requirements, policies and procedures in the construction industry.

Unit Sector

Plasterboard

Elements and Performance Criteria

Elements describe the Performance criteria describe what needs to be done to

essential outcomes.	demonstrate achievement of the element.
1 Plan and prepare.	1.1 Read and interpret work instructions and plan sequence of work. 1.2 Plan all work to comply with laws and regulations, the National Construction Code (NCC), Australian Standards, work health and safety (WHS) and environmental requirements, manufacturers' specifications, and workplace requirements. 1.3 Select and use personal protective equipment (PPE) for each stage of the task. 1.4 Inspect work site, assess hazards and apply risk controls, including required signage and barricades. 1.5 Select tools and equipment, check for serviceability and report any faults that may affect the safe operation of the equipment, tag equipment and set aside. 1.6 Select materials required for task, calculate quantities, handle safely and prepare and position ready for use.
2 Install blanket insulation to walls.	2.1 Determine stud configuration for installation processes. 2.2 Install safety wire mesh. 2.3 Install insulating blanket in full length runs where practicable or, if joined, make joints at centre of frame member. 2.4 Abut adjacent runs of blanket insulation with closed joints.
3 Install acoustic systems.	3.1 Select specified acoustic materials in accordance with manufacturers' specifications for walls and ceiling. 3.2 Select specified acoustic plaster sheeting and acoustic ceiling tiles in accordance with manufacturers' weighted sound reduction index (RW rating). 3.3 Fix and seal acoustic plaster sheeting and acoustic tiles to walls and ceiling.

- 4 Clean up.
 - 4.1 Clear work area and dispose of, reuse or recycle materials.
 - 4.2 Clean, check, maintain and store tools and equipment in accordance with manufacturers' specifications.

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Unit Mapping Information

Supersedes and equivalent to CPCCPB3015A Install acoustic and thermal environmental protection systems

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>

Assessment Requirements for CPCCPB3015 Install acoustic and thermal environmental protection systems

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Performance Evidence

To demonstrate competency, a candidate must satisfy all of the elements, performance criteria and foundation skills of this unit by installing a minimum:

- 9 square metres of blanket insulation to a stud wall/ceiling
- 9 square metres of acoustic plaster sheeting to walls and ceiling
- 9 square metres of acoustic tiles to ceiling.

All work must be performed to the standard required in the workplace and must comply with Commonwealth and state/territory laws and regulations, the National Construction Code, Australian Standards, work health and safety (WHS) and environmental requirements, manufacturers' specifications, and workplace requirements.

Knowledge Evidence

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

- compliance requirements of the National Construction Code and Australian Standards for installing acoustic and thermal environmental protection systems
- regulation and building codes related to acoustic and thermal protection requirements and systems
- sustainable building practices related to acoustic and thermal protection requirements and systems
- quality policies and standards for installing acoustic and thermal environmental protection systems
- safety requirements for installing acoustic and thermal environmental protection systems, including personal protective equipment (PPE), job safety analyses, safe work method statements and safety data sheets
- acoustic and thermal protection systems materials
- acoustic protection systems installation techniques

- basic acoustic theory
- thermal system installation techniques
- basic thermal theory related to heat loss
- materials storage and environmentally friendly waste management
- plans, drawings and specifications for installing acoustic and thermal environmental protection systems
- processes for the calculation of material requirements for installing acoustic and thermal environmental protection systems
- types of acoustic protection systems available for wall and ceiling application and their characteristics, strengths and limitations
- types of thermal protection systems available for wall and ceiling application and their characteristics, strengths and limitations
- types and uses of tools and equipment installing acoustic and thermal environmental protection systems.

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 of the workplace environment, provided that simulated or project-based assessment techniques replicate construction workplace conditions, materials, activities, responsibilities and procedures
- using realistic tasks or simulated tasks, relevant specifications and work instructions, standard work practices, safety requirements and environmental constraints.

Links

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