



Australian Government

CPCCB3012 Construct fireplaces and chimneys

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 CPCCB3012A Construct fireplaces and chimneys. Updated to meet the Standards for Training Packages 2012.

Application

This unit specifies the skills and knowledge required to construct brick fireplaces and chimneys in various types and styles of buildings.

This unit applies to bricklayers and blocklayers who work on new and existing structures. It is suitable for people operating with some autonomy. A person working at this level would be expected to take responsibility for organising and completing tasks assigned to them without needing 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 *CPCCWHS1001 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

Bricklaying and Blocklaying

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe what needs to be done to demonstrate achievement of the element.

1 Prepare for work.

1.1 Select, fit correctly and use personal protective equipment (PPE) appropriate for job.

- 1.2 Read, interpret and apply fireplace and chimney construction requirements from current plans, specifications, standards and codes.
 - 1.3 Follow requirements in workplace safety and environmental documentation and workplace procedures.
 - 1.4 Use measurements and apply formulas to calculate material quantities.
 - 1.5 Identify potential hazards and determine and implement control measures.
 - 1.6 Select appropriate plant, equipment and tools, check condition and report damage or faults to relevant person.
 - 1.7 Check conformity of materials against the specifications and place materials in preparation for the work.
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- 2 Set out and construct base and hearth.
 - 2.1 Locate and set out fireplace base to specified size.
 - 2.2 Mix mortar to quality and consistency specifications.
 - 2.3 Lay masonry base level, straight and plumb to the correct gauge and bond.

- 3 Construct firebox and inner hearth.
- 3.1 Set out the first course for fire box and jambs to specified dimensions.
 - 3.2 Set out gathering/curve of fireback on floor.
 - 3.3 Construct firebox maintaining gauge, level and plumb to allowable tolerances.
 - 3.4 Form gather with corbelled brickwork to provide the specified throat size.
 - 3.5 Install the lintel at the specified height to meet bearing rules and maintain bond.
- 4 Form smoke shelf and throat.
- 4.1 Form smoke shelf to the specified shape with mortar parging.
 - 4.2 Cover finished smoke shelf to protect from damage during construction.
 - 4.3 Check and alter throat size to meet the specified size.

- 5 Form smoke chamber.
- 5.1 Lay gathering over/corbellings to specified angle and correct bond.
 - 5.2 Parge smoke chamber to minimum thickness to achieve a smooth mortar finish.
- 6 Construction flue.
- 6.1 Lay gathering with directional change to break the light.
 - 6.2 Parge inside of flue.
- 7 Complete chimney stack.
- 7.1 Install lead chimney tray at the specified height.
 - 7.2 Extend chimney square and plumb to finished height.
 - 7.3 Lay chimney capping or sand cement flashing to prevent water intrusion.

- 7.4 Finish joints to specified profile and depth.
- 7.5 Clean excess mortar and brush down face work.
- 7.6 Lay brickwork hearth and complete to meet Australian Standards.
- 8 Clean up.
- 8.1 Clear the work area, and dispose of, reuse or recycle materials following workplace and environmental requirements.
- 8.2 Clean tools and equipment, check for serviceability and report damage or faults
- 8.3 Store and secure tools and equipment following workplace procedures.

Foundation Skills

Candidates require:

- technology skills to:
 - use digital tools and devices to source job information and communicate effectively with others.

Unit Mapping Information

Supersedes and is equivalent to CPCCL3012A Construct fire places and chimneys

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>