



**Australian Government**

# **CPCCCA3016 Construct, assemble and install timber external stairs**

**Release: 1**

# CPCCCA3016 Construct, assemble and install timber external stairs

## Modification History

Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.

Supersedes and is equivalent to CPCCCA3016A Construct timber external stairs. Title change. Updated to meet the Standards for Training Packages 2012.

## Application

This unit of competency specifies the skills and knowledge required to construct, assemble and install timber external stairs of one or more flights to provide access into a building or structure, meeting all relevant requirements of the National Construction Code (NCC), Australian Standards, work health and safety (WHS), and Commonwealth and state or territory legislation.

The unit includes external stairs:

- installed from ground level to a landing
- constructed with open risers and with housed strings or metal brackets to accommodate treads
- freestanding or installed against an existing wall
- incorporating timber treads, stringers and balustrading.

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

Carpentry and Joinery

## Elements and Performance Criteria

Elements describe the essential outcomes.

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

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|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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, workplace requirements, drawings and specifications. |
|                                | 1.3 Select tools and equipment, check for serviceability and report any faults.                                                                                                                                                                                     |
|                                | 1.4 Select and use personal protective equipment (PPE) for each part of the task.                                                                                                                                                                                   |
|                                | 1.5 Inspect work site, locate services, assess hazards and apply risk controls, including required signage and barricades.                                                                                                                                          |
|                                | 1.6 Select materials required for task, calculate quantities, handle safely and prepare and position ready for use.                                                                                                                                                 |
| 2 Set out stair components.    | 2.1 Determine exit and ground finish levels from site drawings and location.                                                                                                                                                                                        |
|                                | 2.2 Calculate rise and going of stairs.                                                                                                                                                                                                                             |
|                                | 2.3 Set out newel posts to layout of designed stairs.                                                                                                                                                                                                               |
|                                | 2.4 Set out risers and goings to regulated pitch of stairs on stringers.                                                                                                                                                                                            |
|                                | 2.5 House stringers to accommodate treads or fix metal brackets to support treads.                                                                                                                                                                                  |
|                                | 2.6 Set out and cut material for treads to length.                                                                                                                                                                                                                  |
| 3 Assemble and install stairs. | 3.1 Cut stringers and attach into newel posts and landings.                                                                                                                                                                                                         |
|                                | 3.2 Fix treads to stringers.                                                                                                                                                                                                                                        |

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|---|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
|   | 3.3                                   | Locate and secure bolts to maintain stair width.                                                                                               |
|   | 3.4                                   | Fix bracing and lateral ties to newels to maintain rigidity of stair structure.                                                                |
| 4 | Fit handrails, balustrade and finish. |                                                                                                                                                |
|   | 4.1                                   | Mark material for handrails and balusters and cut to length.                                                                                   |
|   | 4.2                                   | Fit and fix handrails and balusters.                                                                                                           |
|   | 4.3                                   | Install non-slip finish to treads.                                                                                                             |
| 5 | Clean up.                             |                                                                                                                                                |
|   | 5.1                                   | Clean up, meeting all legislative and workplace requirements for safety, waste disposal, materials handling and protection of the environment. |
|   | 5.2                                   | Check, maintain and store tools and equipment and report any faults.                                                                           |

## Foundation Skills

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

## Unit Mapping Information

Supersedes and is equivalent to CPCCCA3016A Construct timber external stairs.

## Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>