

Unit of Competency CPCCCA3016

Construct, assemble and install timber external stairs

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 without 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.

Prerequisite Unit

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

Elements and Performance Criteria

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.
	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 Guide:

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

Assessment Requirements for CPCCCA3016 Construct, assemble and install timber external stairs

Performance Evidence

To demonstrate competency, a candidate must meet the performance criteria of this unit by constructing, assembling and installing one flight of timber external stairs from ground level to a minimum height of 1.1 metres, including a handrail and balustrade to the open side of the flight and landing.

Knowledge Evidence

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

- compliance requirements of the National Construction Code and Australian Standards relevant to constructing, assembling and installing timber external stairs
- workplace quality policies and standards relevant to constructing, assembling and installing timber external stairs
- safety requirements for constructing, assembling and installing timber external stairs
- application of and requirements for line, level and plumb when constructing and installing stairs
- processes for reading and interpreting plans, specifications and drawings for constructing, assembling and installing timber external stairs
- types and uses of tools and equipment required to construct and install timber external stairs
- materials relevant to constructing, assembling and installing timber external stairs
- processes for measuring and calculating material lengths and quantities for constructing, assembling and installing timber external stairs
- durability, quality and treatment requirements of timber used for external stairs
- techniques used for constructing and installing timber external stairs, including different methods of joining and fixing components
- range and characteristics of different stair types
- characteristics of different handrails and balusters.

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 and standards, materials, activities, responsibilities, procedures, safety requirements and environmental considerations.

Links

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