



Australian Government

CPCCJS3011 Design and set out stairs

Release: 2

CPCCJS3011 Design and set out stairs

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 is equivalent to CPCCJS3011A Design and set out stairs.
Updated to meet the Standards for Training Packages 2012.

Application

This unit of competency specifies the skills and knowledge required to design and set-out materials for the manufacturing of stairs, 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 the design and set-out of components for straight flighted stairs with cut or closed stringers.

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

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. |
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| | 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. |
| 2 Prepare stair design. | 2.1 | Determine rise and going for steps and calculate lengths of stringers in compliance with NCC requirements and total rise of the stair. |
| | 2.2 | Calculate number of treads from number of rises and other requirements. |
| | 2.3 | Take and record landing measurements and requirements. |
| | 2.4 | Determine specifications for winders and incorporate into stair design. |
| | 2.5 | Design and draw stair and stair components and check for accuracy and completeness. |
| 3 Prepare materials for setting out. | 3.1 | Document material requirements for stair components and prepare detailed cutting list. |
| | 3.2 | Select, check and prepare materials for set out. |
| | 3.3 | Set out joins for laminated sections. |
| 4 Set out stringers for a stair. | 4.1 | Prepare steel square or pitch board to stair pitch set-out. |
| | 4.2 | Set out stringers and mark for junctions, newel posts, treads and risers. |
| 5 Set out newel posts. | 5.1 | Mark floor to landing height relationships with |

- allowances for floor discrepancies on newel posts.
- 5.2 Set out newel posts to show positions of stringers, treads, flooring, joists, bearers and handrails.
- 5.3 Mark locations for housings on newel posts.
- 6 Set out component parts.
- 6.1 Determine lengths and bevels from stringer and newel post set-outs.
- 6.2 Set out component parts to respective lengths and bevels.
- 7 Clean up.
- 7.1 Clean up, meeting all legislative and workplace requirements for safety, waste disposal, materials handling and protection of the environment.
- 7.2 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 CPCCJS3011A Design and set out stairs.

Links

Companion Volume implementation guides are found in VETNet -

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