



Australian Government

CPCCON3048 Construct tilt panels on site

Release: 2

CPCCON3048 Construct tilt panels on site

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 CPCCCO3048 Construct tilt panels on site.

Application

This unit of competency specifies the skills and knowledge required to work in a team to set up, pour and place concrete tilt panels to form internal and external walls for building structures. It includes on-site and prefabricated methods of panel construction.

A person who has achieved this unit of competency would be expected to take responsibility for organising and completing these tasks with a high degree of self-direction.

Licensing, legislative, regulatory or certification requirements apply to this unit of competency in some states and territories. For further information, check with the relevant regulatory authority.

Completion of the general construction induction training program, specified in the Safe Work Australia model *Code of Practice: Construction Work*, is required by anyone carrying out construction work. Achievement of *CPCWHS1001 Prepare to work safely in the construction industry* meets this requirement.

Pre-requisite Unit

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

Unit Sector

Concreting

Elements and Performance Criteria

Elements describe the essential outcomes.	Performance criteria describe what needs to be done to demonstrate achievement of the element.
1 Plan and prepare to construct tilt panels on	1.1 Interpret tilt panel design specifications and drawings and clarify construction requirements with relevant

site.	persons.
	1.2 Plan work tasks to comply with relevant legislation, regulations, standards, codes, work health and safety (WHS), environmental and workplace requirements. 1.3 Select and fit required personal protective equipment (PPE). 1.4 Inspect work site, assess hazards and apply risk controls, including required signage and barricades. 1.5 Select plant, tools and equipment, check for serviceability and rectify or report any faults. 1.6 Calculate and acquire material quantities to meet task specifications and safely locate materials ready for use.
2 Set out and construct temporary casting bed.	2.1 Select suitable area to construct casting bed in accordance with work instructions. 2.2 Prepare ground to a flat surface in readiness for casting bed. 2.3 Place and finish casting bed to meet work instructions. 2.4 Coat casting bed with bond breaker in accordance with product specifications.
3 Set out work and prepare formwork for panel.	3.1 Set out location and size of tilt panel in accordance with drawings and specifications. 3.2 Prepare, place and fix tilt panel edge formwork, and plumb and align to specifications. 3.3 Apply bond breaker to casting bed face or casting form face of previous panel to ensure ease of panel separation, in accordance with manufacturer requirements for dose and quantity. 3.4 Apply form release agent to formwork in accordance with specifications.
4 Place and tie	4.1 Check reinforcement, accessories and cast-in fittings for

reinforcement and cast-in fittings		conformity with design and engineering specifications.
	4.2	Position reinforcement, accessories and cast-in fittings in accordance with engineering drawings and specifications.
	4.3	Tie reinforcement in correct placement in accordance with engineering drawings and specifications.
5 Place, finish and cure concrete.	5.1	Place concrete evenly and consolidate to specification using approved vibration method.
	5.2	Screed and finish concrete surface to specification ensuring cast-in fittings are clear.
	5.3	Apply required curing process.
	5.4	Strip edge formwork after final panel is cast, ensuring no damage to panels.
6 Clean up.	6.1	Clear work area and dispose of, reuse or recycle materials in accordance with regulatory and workplace requirements.
	6.2	Clean, check, maintain and store plant, tools and equipment in accordance with manufacturer and workplace requirements.

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 CPCCCO3048 Construct tilt panels on site.

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 CPCCON3048 Construct tilt panels on site

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Performance Evidence

To demonstrate competency, a candidate must meet the elements and performance criteria of this unit by constructing tilt panels on site involving:

- constructing a casting bed for one tilt panel measuring at least 20 square metres
- constructing a formwork box for one tilt panel measuring at least 20 square metres
- constructing one tilt panel using a casting bed
- constructing one tilt panel using a formwork box.

The constructed tilt panels must include two of the following:

- blockouts
- door and window penetrations
- raking edges
- waterproofing and decorative rebates.

Knowledge Evidence

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

- compliance requirements of legislation, regulations and Australian Standards relevant to tilt panel construction tasks:
 - environmental protection and waste disposal
 - work health and safety (WHS)
- drawings and specifications used to interpret requirements for constructing tilt panels on site
- effects of weather and climatic conditions on the properties of concrete:
 - detrimental effect of water addition to concrete properties
 - precautions that should be taken to minimise any potential adverse effects when placing and curing concrete
- formwork and reinforcing techniques and componentry for tilt panels

- health risks associated with silica dust exposure
- processes for placing, finishing and curing concrete:
 - approved vibration methods
 - concreting levelling techniques
- techniques and processes for lifting inserts and positioning ferrules
- tensile strength of concrete panels
- tilt panel construction materials and techniques
- types, characteristics, uses and limitations of plant, tools and equipment used when constructing tilt panels on site
- workplace requirements for constructing tilt panels on site:
 - cleaning up the work area
 - maintaining and storing materials, plant, tools and equipment
 - quality
 - reporting problems
 - safety requirements including personal protective equipment (PPE).

Assessment Conditions

Assessors must meet the requirements for assessors contained in the Standards for Registered Training Organisations.

Assessment must be conducted in the workplace or a simulated workplace using realistic conditions, materials, activities, responsibilities, procedures, safety requirements and environmental considerations.

Candidates must have access to documentation, specifications, work sites, materials, plant, tools and equipment required to achieve the performance evidence.

Links

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