



Australian Government

CPCCCO3048 Construct tilt panels on site

Release: 1

CPCCCO3048 Construct tilt panels on site

Modification History

Release 1.

Supersedes and equivalent to CPCCCO3048A Construct tilt panels on site. The unit of competency was updated to the Standards for Training Packages 2012.

This version first released with CPC Construction, Plumbing and Services Training Package Version 4.0.

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 on residential, commercial or civil construction sites.

It includes on-site and prefabricated methods of panel construction used to construct internal and external walls of structures.

It applies to concreters working as members of a team with at least a moderate degree of autonomy. They would be expected to complete routine activities without close supervision.

Licensing, legislative, regulatory or certification requirements apply to this unit of competency in all states and territories except Tasmania. Relevant state and territory regulatory authorities should be consulted to confirm these requirements.

Pre-requisite Unit

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

Unit Sector

Construction

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 site.	1.1 Review and clarify task to construct tilt panels on site. 1.2 Review design of tilt panel from job drawings and specifications, and check to make sure it is in accordance with legislation, regulations and codes of practice. 1.3 Review work health and safety (WHS) requirements for the task in accordance with safety plans and policies.

	1.4 Identify safety signage and barricade requirements. 1.5 Review environmental requirements for the task in accordance with environmental plans and legislative requirements. 1.6 Select plant, tools and equipment, check for serviceability and rectify or report any faults 1.7 Calculate material quantity requirements. 1.8 Acquire materials for the task and locate them safely ready for use.
2. Set out and construct temporary casting bed.	2.1 Erect identified safety signage and barricades, and fit personal protective equipment (PPE). 2.2 Select a suitable area to construct casting bed in accordance with project requirements. 2.3 Prepare the ground to a flat surface in preparation for casting bed. 2.4 Place and finish casting bed to project requirements. 2.5 Coat casting bed with bond breaker in accordance with product specifications.
3. Set out work and prepare formwork for panel.	3.1 Erect identified safety signage and barricade requirements, and fit personal protective equipment (PPE). 3.2 Set out location and size of tilt panel to requirements of job drawings and specifications. 3.3 Prepare, place and fix tilt panel edge formwork, and plumb and align to specifications. 3.4 Apply bond breaker to casting bed face or casting form face of previous panel to ensure ease of panel separation, in accordance with manufacturer's dose and quantity recommendations. 3.5 Apply form release agent to formwork in accordance with specifications.
4. Place and tie reinforcement and cast-in fittings	4.1 Check reinforcement, accessories and cast-in fittings for conformity with design and engineering specifications. 4.2 Position reinforcement, accessories and cast-in fittings in accordance with engineering drawings and specifications. 4.3 Position tie and/or weld reinforcement 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 curing process. 5.4 Apply bond breaker to casting bed face of previous panel to ensure ease of panel separation. 5.5 Strip edge formwork after final panel is cast, ensuring no damage to panels.
6. Clean up after constructing tilt panels on site.	6.1 Clear work area daily and dispose of, re-use or recycle materials in accordance with legislation, regulations, codes of practice and task requirements. 6.2 Clean, check, maintain and store plant, tools and equipment in accordance with manufacturers' specifications and workplace requirements.

Foundation Skills

This section describes the language, literacy, numeracy and employment skills essential to performance in this unit but not explicit in the performance criteria.

- oral communication skills to:
 - use questioning to identify and confirm requirements
 - discuss cause of problems
 - report work site hazards, including faults in tools, equipment and materials
 - provide feedback.

Unit Mapping Information

Supersedes and is equivalent to CPCCCO3048A 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 CPCCCO3048 Construct tilt panels on site

Modification History

Release 1.

Supersedes and equivalent to CPCCCO3048A Construct tilt panels on site. The unit of competency was updated to the Standards for Training Packages 2012.

This version first released with CPC Construction, Plumbing and Services Training Package Version 4.0.

Performance Evidence

To demonstrate competency in this unit, a person must:

- construct a casting bed for a minimum of one tilt panel measuring at least 20 square metres
- construct a formwork box for a minimum of one tilt panel measuring at least 20 square metres
- construct a minimum of one tilt panel using the casting bed
- construct a minimum of one tilt panel using the formwork box.

The constructed tilt panels must include a minimum of two of the following:

- blockouts
- door and window penetrations
- raking edges
- water proofing and decorative rebates.

In doing this, the person must meet the performance criteria for this unit.

Knowledge Evidence

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

- jurisdictional work health and safety (WHS) and environmental legislation and regulations relating to constructing tilt panels on site, including:
 - job safety analyses (JSAs)
 - safe work method statements (SWMSs)
 - safety data sheets (SDSs)
 - safety manuals and instructions for plant, tools and equipment
 - signage and barricades
 - personal protective equipment (PPE)
 - environmental and work site safety plans
- requirements of Australian Standards and the National Construction Code (NCC) relating to constructing tilt panels on site

- workplace requirements for all aspects of constructing tilt panels on site, including interpreting work orders and reporting problems
- interpreting project plans and specifications for constructing tilt panels on site requirements
- types, characteristics, uses and limitations of plant, tools, equipment and materials used for constructing tilt panels on site
- compliance requirements of regulations and standards relating to constructing tilt panels on site, including relevant sections of:
 - Australian Standard (AS) 3600 Concrete structures
- formwork and reinforcing techniques and componentry for tilt panels
- tilt panel construction materials and techniques
- techniques and processes for lifting inserts and positioning ferrules
- tensile strength of concrete panels
- processes for placing, finishing and curing concrete
- concreting levelling techniques
- requirements for cleaning up work area and tools, materials storage and environmentally friendly waste management.

Assessment Conditions

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

Assessment of performance must be undertaken in the workplace or in a simulated workplace environment. Tasks are to be performed to the level of proficiency and within the time limits expected in a workplace.

Assessors are responsible for ensuring that the person demonstrating competency has access to:

- work sites and specifications for constructing tilt panels on site
- appropriate documents, formwork, materials, tools, equipment and PPE currently used in industry
- requirements of appropriate sections of legislation and regulations
- relevant workplace policies and procedures.

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>