

Draft 0.1

This is our work-in-progress update to CPCCCO3048 Construct tilt panels on site:
<https://training.gov.au/Training/Details/CPCCCO3048>.

We are working with industry experts to ensure the updated unit:

- meets current and anticipated industry needs
- complies with current Standards for Training Packages
- is written in clear understandable English.

Information on our training package review and development process is available here:

<http://www.artibus.com.au/project-stage>.

Summary of changes from current endorsed unit:

- code changed to comply with policy for NSSC endorsement required changes to units
- application modified
- PCs modified to clarify requirements
 - deleted duplicative PC on signage, barricades and PPE (already in Element 1)
 - PC 4.3 – removed option to 'weld' – requires skills/knowledge not covered by unit
- knowledge rationalised to provide clarity and remove duplication
- new knowledge point: effects of weather and climatic conditions on the properties of concrete and precautions that should be taken to minimise any potential adverse effects when placing and curing concrete
- assessment conditions: standard wording changed and modified requirement for candidates

Unit of Competency

CPCCON3048 Construct tilt panels on site

Modification history

Release	Comments
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.
2	Supersedes and equivalent to CPCCCO3048 Construct tilt panels on site. This version first released with CPC Construction, Plumbing and Services Training Package Version 6.0.

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. 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.

Prerequisite Unit

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

Unit Sector

Concreting

Elements and Performance Criteria

1. Plan and prepare to construct tilt panels on site.	<ul style="list-style-type: none">1.1 Interpret tilt panel design specifications and drawings and clarify construction requirements with relevant persons.1.2 Plan all work to comply with relevant legislation, regulations, standards, codes, work health and safety, environmental and workplace requirements.1.3 Select and fit personal protective equipment appropriate for work activities.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 material quantities to meet design and construction specifications.1.7 Acquire required materials and safely locate them ready for use.
2. Set out and construct temporary casting bed.	<ul style="list-style-type: none">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 manufacturers' dose and quantity recommendations. 3.4 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 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 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.	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 manufacturers' instructions 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 Volume Implementation Guide:

<https://vetnet.education.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 a casting bed for one tilt panel measuring at least 20 square metres
- construct a formwork box for one tilt panel measuring at least 20 square metres
- construct one tilt panel using the casting bed
- construct one tilt panel using the 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:

- concreting levelling techniques
- drawings and specifications used to interpret requirements for constructing tilt panels on site
- effects of weather and climatic conditions on the properties of concrete and 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
- processes for placing, finishing and curing concrete
- requirements of Australian Standards and the National Construction Code relating to constructing tilt panels on site
- requirements of Commonwealth and state or territory work health and safety and environmental legislation and regulations relevant to constructing tilt panels on site:
 - hazard identification and risk control
 - hazardous material and waste disposal
 - job safety analyses
 - personal protective equipment
 - safe work method statements
 - safety manuals and instructions for plant, tools and equipment
 - signage and barricades

- 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, equipment and materials used when constructing tilt panels on site
- workplace requirements for constructing tilt panels on site:
 - cleaning up
 - maintaining and storing materials, plant, tools and equipment
 - quality
 - reporting problems.

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

Companion Volume Implementation Guide:

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