Draft 0.1

This is our work-in-progress update to CPCCBC4022A Supervise tilt-up work: https://training.gov.au/Training/Details/CPCCBC4022A.

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

Re-templated to meet Standards for Training Packages 2012.

Sequenced Elements and Performance Criteria.

Specified what and how performance is demonstrated in Performance Evidence.

Captured critical Range Statement items and included industry relevant knowledge in Knowledge Evidence.

Stated mandatory conditions and specific requirements for assessment; performance to be demonstrated onsite.

CPCCBC4022
Supervise tilt-up work

Application

This unit of competency specifies the skills and knowledge required to organise, coordinate and supervise tilt-up work on a construction site. It includes the application of safe work practices during the erection and temporary bracing of tilt-up pre-cast concrete panels.

This unit applies to site supervisors and builders who have a sound understanding of licensing and competency requirements for crane operation, dogging and rigging and are responsible for planning, organising and supervising tilt-up work on a construction site.

Those undertaking this unit will have their performance assessed on a construction worksite.

Prerequisite Unit

Nil.

Unit Sector

Construction.

Elements and Performance Criteria

1. Provide effective administration.	1.1	Read and interpret relevant project plans, details and specifications for tilt-up work.
	1.2	Store all structural and design documents, pre-cast panel shop drawings, layout plans and other required documents on site.
	1.3	Check licence and competency details of persons assigned to perform tilt-up work and ensure regulatory training requirements have been met.
	1.4	Check mandatory licenses and approvals required for tilt-up work are obtained.
	1.5	Notify relevant regulatory authorities of work commencement and ensure the administration process is complete.
2. Plan work and set up site.	2.1	Prepare and implement a site-specific work health and safety (WHS) management plan, work plan, and apply WHS risk control measures.
	2.2	Provide site security, amenities, services and emergency/first aid facilities.
	2.3	Develop traffic management and public safety plans and procedures and plan exclusion zones for concrete panel delivery, casting and erection operations.
	2.4	Make available requirements for footings, structural elements, concrete slabs and site access roads for the tilt-up work.
	2.5	Determine suitable onsite crane operating positions in consultation with crane suppliers and operators.
	2.6	Identify ground conditions such as soakwells and drains likely to affect crane stability and check crane standing areas for strength and compaction.

3. Supervise and coordinate tilt-up work.	3.1	Check concrete panel inspection records to confirm design specifications have been followed during panel fabrication and manufacture.
	3.2	Coordinate delivery sequence for concrete panels cast off site, or coordinate a casting and curing schedule and distribution of panels on site.
	3.3	Supervise placement and storage of concrete panels onsite and ensure it meets engineer's requirements.
	3.4	Put in place processes to ensure erection areas are cleared, exclusion zones set up, barriers erected and site personnel advised of restricted access areas prior to erection of concrete panels.
	3.5	Check fixings and anchor bolts supplied for temporary bracing are compliant with designer and engineer specifications.
	3.6	Check correct type of braces, locating dowels and shims are correctly placed and components positioned and propped in accordance with shop drawings or as approved by the engineer.
	3.7	Supervise workers and contractors during the erection of the concrete panels and ensure that safe systems of work and safe work practices are enforced and followed.
	3.8	Use job safety analysis and other tools to identify hazards, assess risks and create safe systems in the event of unanticipated circumstances.
4. Confirm tilt-up stabilisation.	4.1	Check erected concrete panels for compliance with design and engineering specifications.
	4.2	Check compliance of structural steel elements being fixed to the temporarily braced panels are in accordance with designed engineering specifications.
	4.3	Inspect integrity of erected structure prior to removal of temporary bracing to ensure it meets engineer certification.
	4.4	Supervise the sequential removal of temporary bracing.
	4.5	Oversee the safe removal of temporary bracing, plant and equipment from site.
	4.6	Supervise the completion of the erection work and clearing and cleaning of work areas prior to other trades being permitted to enter work zones.
	4.7	Notify relevant personnel of work completion and maintain site records to company requirements.

Foundation Skills

As well as the foundation skills explicit in the performance criteria of this unit, candidates require:

- technology skills to:
  - use digital tools and devices to communicate and collaborate effectively with others
  - use equipment and programs to access, extract information and develop relevant documentation

Unit Mapping Information

Supersedes (equivalency to be determined) CPCCBC4022A Supervise tilt-up work.

Links

Companion Volume Implementation Guide: to be added.

Assessment Requirements for CPCCBC4022 Supervise tilt-up work

Performance Evidence

To demonstrate competency, a candidate must meet the performance criteria of this unit by demonstrating the onsite supervision of a tilt-up construction project.

Knowledge Evidence

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

- government building and construction legislation, standards and codes
- National Standard for Construction Work and National Code of Practice for Induction for Construction Work
- relevant tilt up construction codes and standards
- project plans, drawings and specifications for tilt-up work
- processes, procedures and techniques for:
    - lifting and placing tilt-up panels
    - securing panels to base
    - levelling and plumbing panels
    - temporary bracing panels
    - grouting, bracing, torquing, stabilisation and fixing of panels
- competency and licensing requirements to operate plant and equipment and carry out tilt-up panel work
- capacity and limitations of plant, lifting gear and equipment used in tilt-up work
- capacity and limitations of rigging and equipment
- workplace safety;
    - hierarchy of control
    - hazard identification
    - emergency first aid
    - emergency shutdown and stopping
    - working at heights
    - fall arrest equipment
    - scaffolding
    - access equipment
    - electrical hazards
    - overhead hazards
    - confined spaces

Assessment Conditions

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

Assessment of performance must be undertaken on a construction worksite.

Candidates must be provided with:

- relevant government building and construction legislation codes and standards
- environmental requirements and sustainability principles
- manufacturer's specification and installation instructions
- organisational policies and procedures
- project plans and specifications
- access to a construction site
- sufficient equipment and materials to supervise tilt-up work.

Links

Companion Volume Implementation Guide: to be added.