

Unit of Competency CPCCCA3020 Erect and dismantle jump-form formwork

Application

This unit of competency specifies the skills and knowledge required to erect and dismantle jump-form formwork for concrete-pouring activities to construct wall structures where the formwork process is continuous, 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 curved and straight jump-form formwork, which is erected and then moved to its next position.

Jump-form formwork requires work as a member of a mixed trades team, including carpenters, riggers, electricians, concreters and steel fixers.

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 CPCCWHS1001 *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.

Prerequisite Unit

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

Elements and Performance Criteria

1. Plan and prepare.	1.1	Read and interpret work instructions and plan sequence of work.
	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.
	1.5	Inspect work site, locate services, assess hazards and apply risk controls, including required signage and barricades.
	1.6	Select materials required for task, calculate quantities, handle safely and prepare and position ready for use.
2. Set out formwork.	2.1	Locate set out points and lines to engineer's drawings, survey datum points, and site drawings.
	2.2	Locate jump-form formwork to set out.
3. Assemble core form system.	3.1	Erect and fix internal prefabricated system wall form shutters into location.
	3.2	Fit system onto concrete nib walls at heights consistent with requirements.
	3.3	Install shear key feet.
	3.4	Fit platforms and assembly into core.

	3.5	Fit structural steel system grid work and hydraulic hose lines.
	3.6	Suspend wall form shutters and fit system cladding and platforms.
4. Locate and install penetrations.	4.1	Set out locations and dimensions of penetrations to designated tolerance.
	4.2	Construct penetrations, block-outs and cast-in services.
	4.3	Install penetrations.
5. Jump the formwork.	5.1	Erect and fix external prefabricated system wall shutters.
	5.2	Loosen and strip shutters to manufacturers' and WHS requirements.
	5.3	Instruct rigger to activate electric or hydraulic jacking of the system to the new position.
	5.4	Install trailing platforms.
	5.5	Dismantle formwork.
6. Clean up.	6.1	Clean up, meeting all legislative and workplace requirements for safety, waste disposal and materials handling.
	6.2	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 CPCCCA3020A Erect and dismantle jump-form formwork.

Links

Companion Volume Implementation Guide:

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

Assessment Requirements for CPCCCA3020 Erect and dismantle jump-form formwork

Performance Evidence

To demonstrate competency, a candidate must meet the performance criteria of this unit by completing, as a member of a team, the erection and dismantling of curved and straight jump-form formwork for at least one jump operation, including penetrations, block-outs and cast-in services.

Knowledge Evidence

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

- compliance requirements of the National Construction Code and Australian Standards relevant to erecting and dismantling jump-form formwork
- workplace quality policies and standards relevant to erecting and dismantling jump-form formwork
- safety requirements for erecting and dismantling jump-form formwork
- common formwork faults and problems, and suitable methods to rectify them
- concrete characteristics and properties used in jump-form formwork
- functions and operations of electric or hydraulic jacking systems relating to jump-form systems
- formwork materials and erection techniques
- contents of and terms and symbols used in plans, specifications for erecting and dismantling jump-form formwork
- types and uses of tools and equipment required to erect and dismantle jump-form formwork
- processes for calculating material requirements for erecting and dismantling jump-form formwork.

Assessment Conditions

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

This unit must be assessed in the workplace or a close simulation using realistic workplace conditions and standards, materials, activities, responsibilities, procedures, safety requirements and environmental considerations.

Links

Companion Volume Implementation Guide:

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