

Unit of Competency CPCCCA3019

Erect and dismantle formwork to suspended slabs, columns, beams and walls

Application

This unit of competency specifies the skills and knowledge required to erect and dismantle formwork to suspended slabs, columns, beams and walls to contain concrete in above-ground construction, 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:

- setting out, assembling and bracing formwork
- sorting formwork materials and preparing for re-use

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

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| 1. Plan and prepare. | <p>1.1 Read and interpret work instructions and plan sequence of work.</p> <p>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.</p> <p>1.3 Select tools and equipment, check for serviceability and report any faults.</p> <p>1.4 Select and use personal protective equipment (PPE) for each part of the task.</p> <p>1.5 Inspect work site, locate services, assess hazards and apply risk controls, including required signage and barricades.</p> |
| 2. Erect formwork. | <p>2.1 Clear work area and prepare surface for safe erection of formwork for suspended slabs, columns, beams and walls.</p> <p>2.2 Set-out formwork to requirements of drawings and specifications.</p> <p>2.3 Assemble formwork with support system to drawings, specifications and class of surface finish and set to correct height, level and line.</p> <p>2.4 Brace formwork to maintain rigidity and stability.</p> <p>2.5 Erect formwork support system sequentially to initial set-out and task specifications.</p> <p>2.6 Fabricate and erect formwork shutters and edge boxing to designed form</p> |

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| | <p>requirements and dimensions specified to allow for safe stripping.</p> <p>2.7 Install block-outs and cast-in services to specified locations.</p> <p>2.8 Remove debris, sawdust and other waste materials from completed formwork following waste management requirements.</p> <p>2.9 Apply release agent to formwork face to manufacturers' specifications.</p> |
| 3. Strip formwork. | <p>3.1 Strip formwork and bracing sequentially and safely.</p> <p>3.2 Check formwork for re-usability and disposed of damaged components to requirements.</p> <p>3.3 Safely de-nail, clean, oil and store or stack reusable formwork components.</p> |
| 4. Clean-up. | <p>4.1 Clean up, meeting all legislative and workplace requirements for safety, waste disposal and materials handling.</p> <p>4.2 Check, maintain and store tools and equipment and report any faults.</p> |

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 CPCCCA3019A Erect and dismantle formwork to suspended slabs, columns, beams and walls.

Links

Companion Volume Implementation Guide:

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

Assessment Requirements for CPCCCA3019 Erect and dismantle formwork to suspended slabs, columns, beams and walls

Performance Evidence

To demonstrate competency, a candidate must meet the performance criteria of this unit by setting-out and erecting suspended slab formwork for a slab size of a minimum of 10 square metres.

The formwork must incorporate:

- one beam
- one wall of a minimum of 1.8 metres high by 1.0 metre long
- two different types of columns with a specified formwork system at a minimum height of 1.8 metres
- block-outs and cast-in services.

Formwork may be prefabricated or fabricated in situ and must be rigid and able to withstand the mass of wet concrete and actions imposed during placement. It must comply with regulations and specifications for height, level and loadings.

Knowledge Evidence

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

- compliance requirements of the National Construction Code and Australian Standards including AS 3610 Formwork for concrete requirements relevant to erecting, stripping and dismantling formwork to suspended slabs, columns, beams and walls
- workplace quality policies and standards relevant to erecting, stripping and dismantling formwork to suspended slabs, columns, beams and walls
- safety requirements for erecting, stripping and dismantling formwork to suspended slabs, columns, beams and walls
- environmental requirements for erecting and dismantling formwork to suspended slabs, columns, beams and walls
- line, level and plumb for erecting formwork
- common formwork faults and problems, and suitable methods to rectify them
- formwork componentry
- materials and erection techniques used when erecting formwork to suspended slabs, columns, beams and walls
- contents of and terms and symbols used in plans, specifications and drawings relevant to erecting and dismantling formwork to suspended slabs, columns, beams and walls
- types and uses of tools and equipment used to erect and dismantle formwork
- processes for setting out formwork and measuring required materials
- purpose, application and properties of commonly used release agents relevant to erecting formwork to suspended slabs, columns, beams and walls.

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

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