

# Unit of Competency CPCCCA3004

## Construct and erect wall frames

### Application

This unit of competency specifies the skills and knowledge required to plan, prepare, set out, construct and erect load-bearing and non-load-bearing wall frames for the different types of loadings, 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, cutting and fabrication of timber frames and preparation of steel frames and the erection, connection and bracing of frames.

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.	<ul style="list-style-type: none"><li>1.1 Read and interpret work instructions and plan sequence of work.</li><li>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.</li><li>1.3 Select tools and equipment, check for serviceability and report any faults.</li><li>1.4 Select and use personal protective equipment (PPE) for each part of the task.</li><li>1.5 Inspect work site, locate services, assess hazards and apply risk controls, including required signage and barricades.</li><li>1.6 Select materials required for task, calculate quantities, handle safely and prepare and position ready for use.</li></ul>
2. Construct wall frames.	<ul style="list-style-type: none"><li>2.1 Set out location of walls on a slab or subfloor frame.</li><li>2.2 Set out wall plates and a pattern stud meeting specifications and requirements under AS:1684 Residential timber-framed construction and National Association of Steel-framed Housing (NASH): Standard Residential and Low-rise Steel Framing.</li><li>2.3 Assemble wall frames, lintels and bracing.</li></ul>
3. Erect frames.	<ul style="list-style-type: none"><li>3.1 Select timber and steel frames and components.</li><li>3.2 Erect frames, fix into place and align using fixtures and fastenings in accordance with AS 1684 Residential timber-framed construction and National Association of Steel-framed Housing (NASH): Standard Residential and Low-rise Steel Framing.</li></ul>

	3.3	Attach temporary wall braces.
	3.4	Plumb corners at intersections, straighten wall plates and complete bracing.
	3.5	Straighten studs to maintain a flat surface for wall coverings.
4. Clean up.	4.1	Clean up, meeting all legislative and workplace requirements for safety, waste disposal and materials handling.
	4.2	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 CPCCCA3004A Construct wall frames.

## Links

Companion Volume Implementation Guide:

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

# Assessment Requirements for CPCCCA3004 Construct and erect wall frames

## Performance Evidence

To demonstrate competency, a candidate must meet the performance criteria of this unit by:

- setting-out and constructing timber framed walls to a minimum height of 2.4 metres and minimum floor area of 30 square metres to accommodate roof and ceiling members and different types of cladding or linings, including:
  - two external load-bearing walls with one window opening and one door opening in each wall
  - two external straight walls with external intersection
  - two internal non-load-bearing walls encompassing an internal T junction and an external junction
- setting-out and erecting steel framed walls to a minimum height of 2.4 metres and minimum floor area of 30 square metres to accommodate roof and ceiling members and different types of cladding or linings, including:
  - two external load-bearing walls with one window opening and one door opening in each wall
  - two external straight walls with external intersection
  - two internal non-load-bearing walls encompassing an internal T junction and an external junction.

## Knowledge Evidence

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

- compliance requirements of the National Construction Code (NCC) and Australian Standards relevant to constructing wall frames, including AS:1684 Residential timber-framed construction
- requirements of the National Association of Steel-framed Housing (NASH) Standards relevant to constructing and erecting wall frames
- workplace quality policies and standards for constructing and erecting wall frames
- safety requirements for constructing and erecting wall frames
- electrolysis and corrosion of dissimilar steels relevant to erecting steel wall frames
- plans, specifications and drawings for constructing and erecting wall frames
- types and uses of tools and equipment for constructing and erecting wall frames
- processes for:
  - setting out and measuring materials for frames
  - calculating material requirements
- applications for materials used for constructing and erecting wall frames
- timber types, structural properties and uses, including engineered timber products
- frame construction techniques.

## 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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