

Unit of Competency CPCCCA3006 Erect roof trusses

Application

This unit of competency specifies the skills and knowledge required to select, set out, erect and brace timber and steel roof trusses in preparation for the installation of waterproof roof coverings, meeting all relevant requirements of the National Construction Code (NCC), Australian Standards, National Association of Steel-framed Housing (NASH) Standards, work health and safety (WHS), and Commonwealth and state or territory legislation.

The unit includes erection of manufactured roof trusses in accordance with AS 4440 Installation of nail-plated timber roof trusses.

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">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 Identify materials required from truss layout plan, including fasteners and steel brackets, calculate quantities, handle safely and prepare and position ready for use.
2. Erect roof trusses.	<ul style="list-style-type: none">2.1 Set out location of roof trusses on top plates to truss layout plan.2.2 Manage lifting and handling of materials, including lifting trusses and stacking loads on wall frames ready for use.2.3 Erect, plumb and fix roof trusses to set out positions in correct sequence to align at apex.

	<p>2.4 Install bottom chord at constant height above internal wall plates and use to provide lateral support for internal walls.</p> <p>2.5 Fix ceiling trimming and creeper trusses.</p> <p>2.6 Construct and fix roof bracing following AS 4440 Installation of nail-plated timber roof trusses and National Association of Steel-framed Housing (NASH) Standards.</p> <p>2.7 Fix lateral restraints to truss chords in position to manufacturers' specifications.</p> <p>2.8 Install roof and internal wall bracing connections, including tie downs, for wind load following manufacturers' guidelines and AS 4440 and NASH.</p>
fr3. Clean up.	<p>3.1 Clean up, meeting all legislative and workplace requirements for safety, waste disposal and materials handling.</p> <p>3.2 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 CPCCCA3006B Erect roof trusses.

Links

Companion Volume Implementation Guide:

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

Assessment Requirements for CPCCCA3006 Erect roof trusses

Performance Evidence

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

- setting out and erecting timber trusses manufactured to AS 4440 *Installation of nail-plated timber roof trusses* and steel trusses to the requirements of the NASH Standards including:
 - a minimum 30 square metres of timber roof trusses with a major and minor span, including:
 - one hip end and valley
 - one gable end
 - a minimum 30 square metres of steel roof trusses with a major and minor span, including:
 - one hip end and valley
 - one gable end
- installing:
 - gable bracing, bottom chord bracing, web bracing and top chord bracing installed in line with the requirements of both AS 4440 *Installation of nail-plated timber roof trusses* to the requirements of the NASH Standards
 - a connection between an internal brace wall running parallel to the bottom chord
 - a connection between an internal brace wall running at 90 degrees to the bottom chord.

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 roof trusses, including AS 4440 *Installation of nail-plated timber roof trusses* required by the National Construction Code (NCC)
- requirements of the National Association of Steel-framed Housing (NASH) Standards relevant to erecting roof trusses
- workplace quality policies and standards relevant to erecting roof trusses
- safety requirements for erecting roof trusses
- plans, specifications and drawings for erecting roof trusses
- types and uses of tools and equipment required to erect roof trusses
- materials used in roof truss erection
- quality requirements for roof trusses
- roof truss erection and construction techniques
- types of roof construction and components of roof trusses
- techniques for lifting and positioning trusses
- processes and requirements for the temporary and permanent bracing of roof trusses and elementary bracing principles for various shaped roofs
- types of timber and their structural properties and uses, including engineered timber products.

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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