

FPICOT2235A Assess timber for manufacturing potential

FPICOT2235A
Unit descriptor

Assess timber for manufacturing potential

This unit describes the outcomes required to assess timber for its manufacturing potential for frame and truss construction including the ability to hold nail plates and retain engineered strength ratings with particular attention given to serviceability.

General workplace legislative and regulatory requirements apply to this unit; however there are no specific licensing or certification requirements at the time of publication

Employability skills

This unit contains employability skills

Application of the unit

The unit involves assessing timber for plating potential in a factory environment, usually as part of production of pre fabricated trusses, frames and/or floors

Competency field

Common Technical

ELEMENT

Elements describe the essential outcomes of a unit of competency.

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.

1. Prepare for assessing

- 1.1. Applicable ***Occupational Health and Safety (OHS), legislative and organisational*** requirements relevant to assessing ***timber*** are identified and complied with
- 1.2. ***Work order*** is reviewed and clarified with ***appropriate personnel***
- 1.3. Visual assessment processes are planned in accordance with site procedures
- 1.4. Type and quantity of ***material*** to be visually assessed is acquired from the storage location
- 1.5. ***Equipment*** is selected appropriate to work requirements and checked for operational effectiveness in accordance with manufacturer's recommendations
- 1.6. ***Communication*** with others is established and maintained in accordance with OHS requirements

2. Assess timber for manufacturing potential

- 2.1. Material requirements for storage or subsequent ***processing operations*** are selected
- 2.2. Characteristics and ***defects*** of material are assessed against industry and Australian standards for plating potential
- 2.3. Defects are clearly identified prior to ***plating or sawing*** in accordance with site requirements
- 2.4. Timber ***components*** are orientated to make best use of the characteristics
- 2.5. Timber assessed as unsuitable for plating is identified and reprocessed to minimise wastage
- 2.6. Assessment outcomes and distribution problems are

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ELEMENT

PERFORMANCE CRITERIA

recorded and reported in accordance with workplace procedures

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|------------------------|---|
| 3. Distribute material | 3.1. Material is directed and moved to storage or processing operations in accordance with site requirements |
| | 3.2. Sub-standard materials are rejected and disposed of in accordance with site requirements to minimise wastage |
| | 3.3. On-site movement of material is monitored to ensure intended flow is achieved |
| | 3.4. Storage locations are labelled in accordance with site systems |

REQUIRED SKILLS AND KNOWLEDGE

This describes the essential skills and knowledge and their level required for this unit

Required skills

- The ability to comply with legislation, regulations, standards, codes or practice and established safe practices and procedures for assessing timber for plating potential
- Technical skills sufficient to identify and assess a range of timber characteristics likely to impact on nail plate holding ability
- Technical skills to orientate components to ensure optimum utilisation of the resource.
- Communication skills sufficient to liaise with co-workers and supervisors to ensure efficient work flow
- Literacy skills sufficient to identify and record timber characteristics impacting on nail plate holding ability
- Numeracy skills sufficient to measure, estimate and record size of timber characteristics
- Problem solving skills sufficient to identify and resolve work flow problems resulting from undesirable timber characteristics

Required knowledge

- Basic knowledge and understanding of applicable Commonwealth, State or Territory legislation, regulations, standards and codes of practice relevant to the full range of processes for assessing timber for plating potential
- Organisational and site standards, requirements, policies and procedures for assessing timber for plating potential
- Environmental protection requirements, including the safe disposal of waste material
- Knowledge of materials handling and transport systems
- Orientation of components to ensure products conform with manufacturing guidelines
- Identify a range of timber characteristics likely to affect nail plate holding ability
- Identify a range of industry standard species, lengths, cross sections and grades that may affect nail plate holding ability
- Apply specifications to timber characteristics to make an accurate assessment of nail plate holding ability
- Established communication channels and protocols

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REQUIRED SKILLS AND KNOWLEDGE

- Principles of cultural diversity and access and equity
- Problem identification and resolution strategies and common fault finding techniques
- Types of tools and equipment and procedures for their use, including operation and maintenance
- Appropriate mathematical procedures for estimating and measuring, including calculating time to complete tasks
- Procedures for recording and reporting workplace records and information

RANGE STATEMENT

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

OHS requirements:

are to be in accordance with applicable Commonwealth, State or Territory legislation and regulations, and organisational safety policies and procedures, and may include:

- personal protective equipment and clothing
- safety equipment
- first aid equipment
- fire fighting equipment
- hazard and risk control
- elimination of hazardous materials and substances
- manual handling including shifting, lifting and carrying

Legislative requirements:

are to be in accordance with applicable Commonwealth, State or Territory legislation, regulations, certification requirements and codes of practice and may include:

- award and enterprise agreements
- industrial relations
- Australian Standards
- confidentiality and privacy
- OHS
- the environment
- equal opportunity
- anti-discrimination
- relevant industry codes of practice
- duty of care

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RANGE STATEMENT

Organisational requirements may include:

- legal
- organisational and site guidelines
- policies and procedures relating to own role and responsibility
- quality assurance
- procedural manuals
- quality and continuous improvement processes and standards
- OHS, emergency and evacuation procedures
- ethical standards
- recording and reporting requirements
- equipment use and maintenance and storage requirements
- environmental management requirements (waste disposal, recycling and re-use guidelines)

Timber characteristics should include:

- bow, spring and twist
- wane/want and collapse
- cupping and other distortion
- knots and knot holes
- borer damage
- gum/resin veins and pockets
- decay
- end splits, internal checks and surface checks
- low density material
- compression failures and fractures
- durability
- heart in material
- joint strength

Standards

- are those contained in Australian Standards and additional requirements established by the client or nail plate producer

Tolerance

- is to include the enterprise accepted deviation from the specifications

Records and reports

- may include stress-grading requirements, product type, size, inspection, grading and marking outcomes, storage locations, quality outcomes, hazards, incidents or equipment malfunctions
- may be manual, using a computer-based system or

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RANGE STATEMENT

Components may include:

another appropriate organisational communication system

- top chords, bottom chords, webs, studs, top and bottom plates

Consultation Draft

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EVIDENCE GUIDE

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Overview of assessment

A person who demonstrates competency in this unit must be able to provide evidence that they can assess timber for manufacturing potential

Critical aspects for assessment and evidence required to demonstrate competency in this unit

The evidence required to demonstrate competency in this unit must be relevant to and satisfy all of the requirements of the elements of this unit and include demonstration of:

- complying with applicable Commonwealth, State or Territory legislative and regulatory requirements and codes of practice relevant to assessing timber for plating potential
- complying with organisational policies and procedures relevant to assessing timber for plating potential
- Apply knowledge of timber characteristics to make an accurate assessment of the potential of a piece of timber to be used for a particular component of trusses, and/or frames and/or floors
- Competency is to be assessed in the workplace or realistically simulated workplace
- Assessment is to occur under standard and authorised work practices, safety requirements and environmental constraints
- Assessment of essential underpinning knowledge, other than confirmatory questions, will usually be conducted in an off-site context
- Assessment is to comply with relevant regulatory or Australian Standards requirements
- The following resources should be made available:
 - workplace location or simulated workplace
 - materials and equipment relevant to undertaking work applicable to this unit
 - specifications and work instructions

Context of and specific resources for assessment

Method of assessment

- Assessment must satisfy the endorsed Assessment Guidelines of the FPI05 Training Package
- Assessment methods must confirm consistency and accuracy of performance (over time and in a range of workplace relevant contexts) together with application of underpinning knowledge
- Assessment must be by direct observation of tasks, with questioning on underpinning knowledge and it must also reinforce the integration of employability skills

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EVIDENCE GUIDE

- Assessment methods must confirm the ability to access and correctly interpret and apply the essential underpinning knowledge
- Assessment may be applied under project-related conditions (real or simulated) and require evidence of process
- Assessment must confirm a reasonable inference that competency is able not only to be satisfied under the particular circumstance, but is able to be transferred to other circumstances
- Assessment may be in conjunction with assessment of other units of competency
- The assessment environment should not disadvantage the candidate
- Assessment practices should take into account any relevant language or cultural issues related to Aboriginality, gender or language backgrounds other than English
- Where the participant has a disability, reasonable adjustment may be applied during assessment
- Language and literacy demands of the assessment task should not be higher than those of the work role

FPICOT3248A Set up timber floor trusses

FPICOT3248A
Unit descriptor

Set up timber floor trusses

This unit describes the outcomes required to plan and set up the assembly of timber floor trusses using a purpose built jig or computer-operated truss table, and oversee the operation of the truss press

General workplace legislative and regulatory requirements apply to this unit; however there are no specific licensing or certification requirements at the time of publication

Employability skills
Application of the unit

This unit contains employability skills

The unit involves setting up and producing floor trusses in a timber and wood products production environment

It may be used at either a truss/frame fabrication facility or timber merchants facility

The skills and knowledge required for competent workplace performance are to be used within the scope of the person's job and authority

Competency field

Common Technical

ELEMENT	PERFORMANCE CRITERIA
Elements describe the essential outcomes of a unit of competency.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.
1. Prepare for assembly	1.1. Applicable <i>Occupational Health and Safety (OHS), legislative and organisational</i> requirements relevant to assembling <i>timber floor trusses</i> are identified and complied with
	1.2. <i>Work order</i> and construction plans are reviewed and clarified with <i>appropriate personnel</i>
	1.3. Type and quantity of <i>material</i> and <i>assembly hardware</i> to be assembled are collected
	1.4. <i>Equipment</i> is selected appropriate to work requirements and checked for operational effectiveness in accordance with manufacturer's recommendations
	1.5. <i>Set up table or jigs</i> required for construction are specified and prepared
	1.6. <i>Communication</i> with others is established and maintained in accordance with OHS requirements
2. Set up floor truss	2.1. Product size and number of joints are assessed with table or jig area, and sections and layout planned
	2.2. <i>Timber components</i> are selected from pre-cut material in accordance with the cutting list and checked for fit
	2.3. Jig components are positioned to accurately locate and

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ELEMENT	PERFORMANCE CRITERIA
	support the assembly components with the jig or table adjusted to suit
	2.4. Components are positioned and clamped in jigs ready for joining with allowable faults, joints and grain in accordance with construction standards and grading rules
	2.5. Components are set to include overhang and other design requirements including camber if specified
	2.6. Webs are set up to nominated pattern configuration
	2.7. Defective components are rejected in accordance with site requirements
	2.8. Components are clamped and or nailed to maintain temporary alignment during assembly
3. Control pressing operations	3.1. Assembly hardware is located and selected in accordance with the construction plans and standards
	3.2. Hardware is positioned on joints and installed in accordance with design specifications
	3.3. Truss-pressing operations are coordinated to ensure finished product complies with customer orders
	3.4. Assembly faults are corrected in accordance with site procedures
4. Prepare products for despatch and report	4.1. Finished product is assessed for quality against construction standards and labelled in accordance with the work order
	4.2. Components are removed from table or jigs and safely stacked in a designated location in accordance with work order requirements
	4.3. Finished products are strapped , packed and labelled ready for transportation
	4.4. Equipment faults are recognised and reported in accordance with site procedures
	4.5. Records and reports are accurately completed, processed and maintained in accordance with workplace procedures

REQUIRED SKILLS AND KNOWLEDGE

This describes the essential skills and knowledge and their level required for this unit

Required skills

- The ability to comply with legislation, regulations, standards, codes or practice and established safe practices and procedures for setting up timber floor trusses
- Technical skills sufficient to set up and fix timber floor truss components, pack, stack and strap components for despatch
- Communication skills sufficient to read and interpret plans and drawings, legibly complete and process production records, label products for despatch
- Literacy skills sufficient to read and interpret plans, process production records

REQUIRED SKILLS AND KNOWLEDGE

- Numeracy skills sufficient to estimate time frames for job completion, estimate number and types of components needed to produce floor trusses.
- Problem solving skills sufficient to identify and rectify product non compliance.

Required knowledge

- Basic knowledge and understanding of applicable Commonwealth, State or Territory legislation, regulations, standards and codes of practice relevant to the full range of processes for setting up timber floor trusses
- Organisational and site standards, requirements, policies and procedures for setting up floor trusses
- Environmental protection requirements, including the safe disposal of waste material
- Characteristics of timber and timber defects
- Assembly sequences and jig operation
- Assembly componentry and construction standards
- Quality requirements of national building codes and standards
- Industry standard cross-sections and lengths
- Established communication channels and protocols
- Principles of cultural diversity and access and equity
- Problem identification and resolution strategies and common fault finding techniques
- Types of tools and equipment and procedures for their safe use, operation and maintenance
- Appropriate mathematical procedures for estimating and measuring, including calculating time to complete tasks
- Procedures for recording and reporting workplace records and information

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RANGE STATEMENT

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

OHS requirements:

are to be in accordance with applicable Commonwealth, State or Territory legislation and regulations, and organisational safety policies and procedures, and may include:

- personal protective equipment and clothing
- safety equipment
- first aid equipment
- fire fighting equipment
- hazard identification and risk control
- elimination of hazardous materials and substances
- manual handling including shifting, lifting and carrying

Legislative requirements:

are to be in accordance with applicable Commonwealth, State or Territory legislation, regulations, certification requirements and codes of practice and may include:

- award and enterprise agreements
- industrial relations
- Australian Standards
- confidentiality and privacy
- OHS
- the environment
- equal opportunity
- anti-discrimination
- relevant industry codes of practice
- duty of care
- legal
- organisational and site guidelines
- policies and procedures relating to own role and responsibility
- quality assurance
- procedural manuals
- quality and continuous improvement processes and standards

Organisational requirements may include:

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RANGE STATEMENT

- OHS, emergency and evacuation procedures
 - ethical standards
 - recording and reporting requirements
 - equipment use and maintenance and storage requirements
 - environmental management requirements (waste disposal, recycling and re-use guidelines)
- Timber floor trusses
- are jointed structures designed to act as a beam of long span, while each member is usually subjected to gravity, dead and live loads. Trusses may include joists, purlins, chords and beams
- Work order
- is to include instructions for the assembly and despatch of timber and timber products from the work site and may include construction plans or drawings, type of product, size, quantity and grade
- Appropriate personnel may include:
- supervisors, suppliers, clients, colleagues and managers
- Material may include:
- native timber species, imported timber species, dressed timber, in-the-rough timber, stress and non-stress graded timber, preservative treated timber, laminated veneer, coated and/or treated timber products, beams or laminated beams
- Assembly hardware may include:
- nailing plates, floor truss spacers and bracing, nail gun nails and staples
- Equipment may include:
- measuring equipment, electric circular saws, docking saws, drills, assembly jigs, assembly table, nail plate presses, staple guns, nail guns, compressor or compressed air supply, marking equipment and strapping equipment
- Set up table/ jigs may include:
- enterprise manufactured templates and structures which assist in the positioning of components during the assembly process
- Communication may include:
- verbal and non-verbal language, constructive feedback, active listening, questioning to clarify and confirm understanding, use of positive, confident and cooperative language, use of language and concepts appropriate to individual social and cultural differences, control of tone of voice and body language
- Timber components
- are the sections of timber or timber product which have been pre-cut in readiness for assembly and have been cut to comply with the construction plans and cutting list
- Webs
- truss internal supports - arranged symmetrically

FPICOT3248A Set up timber floor trusses

RANGE STATEMENT

Defective components may include:

- components with an unacceptable level of warp, wane/want, cupping, shakes, spring, bow, splits, insect defects, knots or resin pockets

Assembly faults may include:

- incorrectly positioned joints, timber splits from nailing and incorrectly positioned hardware

Stacking may include:

- preparation for transport, categorising in common size, shape, lots marked in accordance with work order and site requirements and located as not to block access or passage

Strapping may include:

- securing bundles with metal or plastic strap, tightening and tensioning using hand held equipment, to prevent slippage without risk of strap breakage or damage to products

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EVIDENCE GUIDE	
The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.	
Overview of assessment	A person who demonstrates competency in this unit must be able to provide evidence that they can plan and set up the assembly of timber floor trusses using a purpose built jig or computer-operated truss table, and oversee the operation of the truss press
Critical aspects for assessment and evidence required to demonstrate competency in this unit	<p>The evidence required to demonstrate competency in this unit must be relevant to and satisfy all of the requirements of the elements of this unit and include demonstration of:</p> <ul style="list-style-type: none"> • complying with applicable Commonwealth, State or Territory legislative and regulatory requirements and codes of practice relevant to set up timber floor trusses • complying with organisational policies and procedures relevant to set up timber floor trusses
Context of and specific resources for assessment	<ul style="list-style-type: none"> • Competency is to be assessed in the workplace or realistically simulated workplace • Assessment is to occur under standard and authorised work practices, safety requirements and environmental constraints • Assessment of essential underpinning knowledge, other than confirmatory questions, will usually be conducted in an off-site context • Assessment is to comply with relevant regulatory or Australian Standards requirements • The following resources should be made available: <ul style="list-style-type: none"> - workplace location or simulated workplace - materials and equipment relevant to undertaking work applicable to this unit - specifications and work instructions
Method of assessment	<ul style="list-style-type: none"> • Assessment must satisfy the endorsed Assessment Guidelines of the FPI05 Training Package • Assessment methods must confirm consistency and accuracy of performance (over time and in a range of workplace relevant contexts) together with application of underpinning knowledge • Assessment must be by direct observation of tasks, with questioning on underpinning knowledge and it must also reinforce the integration of employability skills • Assessment methods must confirm the ability to access and correctly interpret and apply the essential underpinning knowledge

EVIDENCE GUIDE

- Assessment may be applied under project-related conditions (real or simulated) and require evidence of process
- Assessment must confirm a reasonable inference that competency is able not only to be satisfied under the particular circumstance, but is able to be transferred to other circumstances
- Assessment may be in conjunction with assessment of other units of competency
- The assessment environment should not disadvantage the candidate
- Assessment practices should take into account any relevant language or cultural issues related to Aboriginality, gender or language backgrounds other than English
- Where the participant has a disability, reasonable adjustment may be applied during assessment
- Language and literacy demands of the assessment task should not be higher than those of the work role

FPITMM2203A Read and interpret truss, floor and/or frame fabrication plans

FPITMM2203A

Read and interpret truss, floor and/or frame fabrication plans

Unit descriptor

This unit describes the outcomes required to read and interpret truss, frame and/or floor fabrication plans showing construction details and component specifications.

General workplace legislative and regulatory requirements apply to this unit; however there are no specific licensing or certification requirements at the time of publication

Employability skills

This unit contains employability skills

Application of the unit

The unit involves reading and interpreting truss, frame and/or floor fabrication plans in a factory environment to produce prefabricated trusses, frames and/or floors to specifications.

Competency field

Timber Manufacturing and Merchandising

ELEMENT

Elements describe the essential outcomes of a unit of competency.

1. Clarify and review construction plans

2. Interpret and read plans

3. Confirm work order

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.

- 1.1. Applicable ***Occupational Health and Safety (OHS), legislative and organisational*** requirements relevant to reading and interpreting truss, floor or frame fabrication plans are followed
- 1.2. ***Work order*** and construction plans are reviewed and clarified with ***appropriate personnel***
- 1.3. Drawing views and notes are interpreted and other design requirements and restrictions identified and complied with
- 1.4. Additional information and data is obtained from appropriate personnel and sources if required
- 1.5. ***Communication*** with others is established and maintained in accordance with OHS requirements
- 2.1. Plans and work requirements are identified, interpreted and applied to ***assembling components***
- 2.2. ***Layouts***, spacing and sizing of individual structural members are confirmed in accordance with work order requirements
- 2.3. Quantities for bracing and ancillaries for trusses or frames are allowed for
- 2.4. ***Timber component*** information and details are interpreted from plan documentation
- 2.5. ***Bracing points*** are correctly identified, located and labelled from the plans
- 2.6. The need for ***camber*** is established and identified
- 3.1. ***Set up jigs*** required for construction are identified and prepared

FPITMM2203A Read and interpret truss, floor and/or frame fabrication plans

ELEMENT	PERFORMANCE CRITERIA
and construction plan	3.2. Frame, floor or truss types are identified and timber type and species selected in accordance with work order 3.3. Assembly hardware is located and selected in accordance with the construction plans and standards 3.4. Characteristics and design details of material are visually assessed against work order 3.5. Sub-standard materials are rejected and disposed of in accordance with site requirements 3.6. Common site problems are discussed and prevention strategies examined and adopted to ensure future site practice meets design requirements
4. Confirm products to fabrication plan	4.1. Components are set to include camber adjustments, overhang and other design requirements 4.2. Hardware is positioned on joints and installed in accordance with design specifications 4.3. Assembly faults are corrected in accordance with site procedures 4.4. Finished product is assessed for quality against Assembly drawing and labelled in accordance with the work order 4.5. Assessment outcomes and distribution problems are recorded and reported in accordance with workplace procedures 4.6. Records and reports are accurately completed, processed and maintained in accordance with workplace procedures

FPITMM2203A Read and interpret truss, floor and/or frame fabrication plans

REQUIRED SKILLS AND KNOWLEDGE

This describes the essential skills and knowledge and their level required for this unit

Required skills

- The ability to comply with legislation, regulations, standards, codes or practice and established safe practices and procedures for reading and interpreting truss, frame and/or floor plans
- Technical skills sufficient to measure and check length and angle of components; identify a range of timber products, sizes and specifications; identify a range of nail plate products, sizes and specifications
- Communication skills sufficient to interact with co-workers to identify and rectify potential fabrication plan problems
- Literacy skills sufficient to read and interpret truss, frame and-or floor plans
- Numeracy skills sufficient to measure and calculate length and angles including basic addition and subtraction
- Problem solving skills sufficient to identify and resolve potential fabrication plan problems

Required knowledge

- Basic knowledge and understanding of applicable Commonwealth, State or Territory legislation, regulations, standards and codes of practice relevant to the full range of processes for reading and interpreting truss, frame and/or floor plans
- Organisational and site standards, requirements, policies and procedures for reading and interpreting truss, frame and/or floor plans
- Environmental protection requirements, including the safe disposal of waste material
- Knowledge of a range of appropriate truss, frame and/or floor types and components
- Understanding of relevant abbreviations and symbols and industry terminology used on fabrication plans
- Knowledge of workplace communication channels to resolve any potential fabrication issues
- Knowledge of appropriate units of measurement and component tolerances in use at the worksite
- Industry standard cross sections and lengths
- Characteristics of timber and timber defects
- Ability to develop a logical construction sequence to construct trusses, frames and/or floors from the plan
- Established communication channels and protocols
- Principles of cultural diversity and access and equity
- Problem identification and resolution strategies and common fault finding techniques
- Types of tools and equipment and procedures for their use, operation and maintenance
- Appropriate mathematical procedures for estimating and measuring, including calculating time to complete tasks
- Procedures for recording and reporting workplace records and information

FPITMM2203A Read and interpret truss, floor and/or frame fabrication plans

RANGE STATEMENT

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

OHS requirements:

are to be in accordance with applicable Commonwealth, State or Territory legislation and regulations, and organisational safety policies and procedures, and may include:

- personal protective equipment and clothing
- safety equipment
- first aid equipment
- fire fighting equipment
- hazard and risk control
- elimination of hazardous materials and substances
- safe forest practices including required actions relating to forest fire
- manual handling including shifting, lifting and carrying

Legislative requirements:

are to be in accordance with applicable Commonwealth, State or Territory legislation, regulations, certification requirements and codes of practice and may include:

- award and enterprise agreements
- industrial relations
- Australian Standards
- confidentiality and privacy
- OHS
- the environment
- equal opportunity
- anti-discrimination
- relevant industry codes of practice
- duty of care
- legal
- organisational and site guidelines
- policies and procedures relating to own role and responsibility
- quality assurance
- procedural manuals

Organisational requirements may include:

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RANGE STATEMENT

- quality and continuous improvement processes and standards
 - OHS, emergency and evacuation procedures
 - ethical standards
 - recording and reporting requirements
 - equipment use and maintenance and storage requirements
 - environmental management requirements (waste disposal, recycling and re-use guidelines)
- Work order
- is to include instructions for the assembly and despatch of timber and timber products from the work site and may include construction plans or drawings, type of product, size, quantity and grade
- Appropriate personnel may include:
- supervisors, suppliers, clients, colleagues and managers
- Communication may include:
- verbal and non-verbal language, constructive feedback, active listening, questioning to clarify and confirm understanding, use of positive, confident and cooperative language, use of language and concepts appropriate to individual social and cultural differences, control of tone of voice and body language
- Assembling components
- details for truss, frame and floors may include design assumptions regarding supporting and tying components
- Layouts
- of trusses, floors or frames are carried out corresponding with work order
- Timber component
- are the sections of timber or timber product which have been pre-cut in readiness for assembly and have been cut to comply with the construction plans and cutting list
- Bracing points
- the point at which timber, ply or metal is attached to truss or frame to prevent lateral movement
- Camber
- an upward curvature built into a truss to compensate for roof load
- Set up jigs may include:
- enterprise manufactured templates which assist in the positioning of components to corresponding work order during the assembly process
- Design details may include:
- timber component species, type, cross-section, grade, length and cutting angles, nail plate and other joining hardware sizes and marking requirements
- Problems
- common site problems are discussed and

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RANGE STATEMENT

- prevention strategies examined and adopted to ensure future site practice meets design requirements
- Hardware may include:
- nailing plates, floor truss plates, bracing, and supplementary fittings and fixings.
- Assembly faults may include:
- timber component species, type, cross-section, grade, length and cutting angles, nail plate and other joining hardware sizes and marking requirements
- Assembly drawing
- details for truss, frame and floors may include design assumptions regarding supporting and tying components
- Records and reports
- may include product type, size, inspection, grading and labelling outcomes, storage locations, quality outcomes, hazards, incidents or equipment malfunctions
 - may be manual, using a computer-based system or another appropriate organisational communication system

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EVIDENCE GUIDE

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Overview of assessment

A person who demonstrates competency in this unit must be able to provide evidence that they can read and interpret a range of timber truss, floor and/or frame fabrication plans.

Critical aspects for assessment and evidence required to demonstrate competency in this unit

The evidence required to demonstrate competency in this unit must be relevant to and satisfy all of the requirements of the elements of this unit and include demonstration of:

- complying with applicable Commonwealth, State or Territory legislative and regulatory requirements and codes of practice relevant to reading and interpreting timber truss, frame and/or floor plans
- complying with organisational policies and procedures relevant to reading and interpreting timber truss, frame and/or floor plans
- developing a logical construction sequence for a range of products from the fabrication plans
- Competency is to be assessed in the workplace or realistically simulated workplace
- Assessment is to occur under standard and authorised work practices, safety requirements and environmental constraints
- Assessment of essential underpinning knowledge, other than confirmatory questions, will usually be conducted in an off-site context
- Assessment is to comply with relevant regulatory or Australian Standards requirements
- The following resources should be made available:
 - workplace location or simulated workplace
 - materials and equipment relevant to undertaking work applicable to this unit
 - specifications and work instructions

Context of and specific resources for assessment

Method of assessment

- Assessment must satisfy the endorsed Assessment Guidelines of the FPI05 Training Package
- Assessment methods must confirm consistency and accuracy of performance (over time and in a range of workplace relevant contexts) together with application of underpinning knowledge
- Assessment must be by direct observation of tasks, with questioning on underpinning knowledge and it must also reinforce the integration of employability skills

FPITMM2203A Read and interpret truss, floor and/or frame fabrication plans

EVIDENCE GUIDE

- Assessment methods must confirm the ability to access and correctly interpret and apply the essential underpinning knowledge
- Assessment may be applied under project-related conditions (real or simulated) and require evidence of process
- Assessment must confirm a reasonable inference that competency is able not only to be satisfied under the particular circumstance, but is able to be transferred to other circumstances
- Assessment may be in conjunction with assessment of other units of competency
- The assessment environment should not disadvantage the candidate
- Assessment practices should take into account any relevant language or cultural issues related to Aboriginality, gender or language backgrounds other than English
- Where the participant has a disability, reasonable adjustment may be applied during assessment
- Language and literacy demands of the assessment task should not be higher than those of the work role