

National Certificate in Building, Construction and Allied Trades Skills (BCATS)
Teacher Information & Resources

**Construct a non-consent timber
framed utility building as a BCATS
project**

Unit Standard – 12936

Level 2, Credit 8





Teaching and assessment tips

Intent – The intent of the unit standard is that the learner is able to construct a non-consent building including;

- Calculating quantities, preparing an order, setting out and constructing the foundation (if required),
- setting out, cutting, assembling and erecting the framing, and
- fixing and finishing the external walls, roof cladding and exterior joinery.

Unit standard interpretation

The word “foundation” may be interpreted as foundation and/or subfloor.

“Finish”, in the context of this unit standard, refers to the surface and/or edge treatment detailed in the project plan; eg. planed, sanded, arris or bevelled edges, painted, stained etc.

A non-consent timber framed building may be a garden shed or a building of a similar complexity. The Building Act 2004 defines a non-consent building as; *“does not exceed one storey and does not exceed 10 square metres in floor area and does not contain sleeping accommodation or sanitary facilities or facilities for the storage of potable water.”*

Calculation of quantities and the order form must include; foundations, wall & roof framing, external walls, roof claddings, exterior joinery and fixings.

An order form template may be sourced from the internet or you can design your own or use a facsimile of you school or business order form. The completed order must be attached to the Assessor Observation sheet.

Evidence to show that the non consent building has been finished must also be attached to the Assessor Observation sheet. This may be a in the form of a verified photo.

Assessment



Assessment of this unit standard consists of:

- Completion of an order, including calculations and
- Completion of the assessor observation sheet
- Completion of a non-consent timber framed building

Examples of oral assessment questions

1. What projection method is used for drawing a floor plan?
A sectional plan view.
2. What is the purpose of a sectional elevation?
To show construction details that are normally hidden.
3. What is the main function of the working drawings?
To accurately represent the extent and content of a project so it can be completed accurately.
4. What is the purpose of using building paper under the exterior wall cladding?
To prevent moisture reaching the wall framing.
5. What precautions must be taken to prevent an electric shock when using portable power tools?
Always use an appropriate electrical safety device.
Do not use portable power tools in wet conditions.
Only use power tools that have been inspected and tagged.
6. What safety precautions should be taken when working with treated timber?
Wear gloves when handling the timber.
Use a dust mask when machining.
7. What must be done when materials are delivered to prevent their deterioration?
Stack timber and other materials clear of the ground.
Keep them covered.

Assessor Observation Sheet – Non-consent building

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Student Name:
Project Name/Description

Assessor observation:

Assessment criteria: <i>This unit standard requires the completion of a non-consent building.</i>		Comments and/or notes
Calculations of materials (including foundations, wall & roof framing, external walls, roof claddings, exterior joinery and fixings) attached	<input type="checkbox"/>	
Order form for materials (attached)	<input type="checkbox"/>	
Foundation is set out, excavated and constructed	<input type="checkbox"/>	
Framing is set out, cut, assembled and erected	<input type="checkbox"/>	
Exterior wall and roof cladding is fixed and exterior joinery is fitted	<input type="checkbox"/>	
Work is finished and completed in accordance with job specifications	<input type="checkbox"/>	
All operations completed safely and according to site/workplace/workshop practices	<input type="checkbox"/>	
Tools are looked after and put away correctly	<input type="checkbox"/>	
Verified photos showing finished project are attached	<input type="checkbox"/>	
Assessor name:	RESULT: A = Achieved, N = Not Yet Achieved	
Assessor signature: Date:		

Assessment Schedule

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Outcome 1	Calculate quantities and prepare an order for materials for a non-consent timber framed utility building.	Assessment evidence and judgement
ER 1.1	Quantities of materials are calculated from working drawings and job specifications.	Evidence gathered from student's calculations and the assessor observation sheet showing; <ul style="list-style-type: none"> Quantities of foundation and wall and roof framing timber, cladding, fixings and fittings are calculated correctly.
ER 1.2	An order for materials is prepared in accordance with working drawings and job specifications.	Evidence gathered using order list; <ul style="list-style-type: none"> Order is legible and correct measurement units are used.
Outcome 2	Set out and construct a non-consent timber framed utility building under supervision.	Assessment evidence and judgement (please attach verified photos)
ER 2.1	Foundation is set out and excavated in accordance with working drawings and job specifications.	Evidence gathered from the non-consent building project and the assessor observation sheet showing; <ul style="list-style-type: none"> Foundation excavation and/or set out is neat and accurate.
ER 2.2	Foundation is constructed in accordance with working drawings and job specifications.	Evidence gathered from the non-consent building project and the assessor observation sheet showing; <ul style="list-style-type: none"> Foundation is constructed correctly.
ER 2.3	Framing is set out, cut, assembled and erected in accordance with working drawings and job specifications.	Evidence gathered from the non-consent building project and the assessor observation sheet showing; <ul style="list-style-type: none"> Framing is set out, cut, assembled, and erected correctly.
ER 2.4	External wall and roof cladding is fixed and the building is finished in accordance with working drawings and job specifications.	Evidence gathered from the non-consent building project and the assessor observation sheet showing; <ul style="list-style-type: none"> External wall and roof cladding is fixed and building is finished correctly.
ER 2.5	Exterior joinery is fitted in accordance with working drawings and job specifications.	Evidence gathered from the non-consent building project and the assessor observation sheet showing; <ul style="list-style-type: none"> Exterior joinery is fitted correctly.
Outcome 3	Complete work operations under supervision.	Assessment evidence and judgement
ER 3.1	All operations are safely completed in accordance with workplace practice.	Evidence gathered from the non-consent building project and the assessor observation sheet showing; <ul style="list-style-type: none"> Appropriate PPE selected and used. Tools used correctly and safely. Personal safety and safety of others observed.
ER 3.2	Workplace, tools, plant and equipment are cleaned, and tools, plant and equipment stored in accordance with workplace practice.	Evidence gathered from the non-consent building project and the assessor observation sheet showing; <ul style="list-style-type: none"> Work area cleaned. Waste disposed of. Tools, plant and equipment cleaned and stored correctly.