

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

**Construct timber garden furniture  
and items of basic construction  
equipment as a BCATS project**

Unit Standard – 12932

Level 2, Credit 8





## Teaching and assessment tips

**Intent** – The intent of the unit standard is that the learner is able to make

- a piece of garden furniture and
- an item of basic construction equipment.

This includes;

- preparing a cutting list,
- marking and cutting the components,
- assembling and
- finishing each project.

### Unit standard Interpretation

It is expected that **2** projects will be completed. One project must be a piece of garden furniture. The other project must be an item of basic construction equipment such as; a saw stool, trestle, step ladder or workbench. If a different item of construction equipment is completed it must be to a similar complexity as those already suggested.

Please note that the plans and project components list in the Learner Resource are provided as examples. Learners must develop their own cutting list in order to achieve this standard. “Finish”, in the context of this unit standard, refers to the surface and/or edge treatment detailed in the project plan; eg. planed, sanded, aris or bevelled edges, painted, stained etc.

The skills required for this unit standard are assessed using the Assessor Observation sheet, a copy of the learner’s cutting list, and evidence of the finished project, for **2** practical projects.

The cutting list, however it is presented, together with any of the learner’s calculations, must be attached to the Assessor Observation sheet.

Evidence to show that each project has been assembled and finished must also be attached to the Assessor Observation sheet. This should be in the form of verified photos.

### Assessment



Assessment of this unit standard consists of:

- Completion of a cutting list for each project, and,
- Completion of an Assessor Observation sheet covering both projects
- Completion of **2** practical projects:
  - One piece of garden furniture **AND**
  - One piece of basic construction equipment

## Examples of oral assessment questions

1. What are some tools you might need to construct garden furniture or basic construction equipment?

*Could include: rule or tape, jigsaw, tenon saw, power mitre saw, router, electric drill, sash cramps, screwdriver, sliding bevel, combination square, builder's square, hammer, chisel.*

2. What precautions should you take to prevent electric shock when working with portable power tools?

- *Use an appropriate electrical safety device.*
- *Do not use electric tools in wet conditions.*
- *Use only leads and tools that have been inspected and tagged.*

3. What precautions should you take when working with treated timber?

- *Wear gloves when handling.*
- *Use a dust mask when machining.*

4. Why do you countersink a screw and how is it done?

*You do it to set the screw flush with or below the surface of the work so it makes a flat surface.*

*It is done by enlarging the top of the screw hole so that the conical head of the screw can be set flush or below the surface of the work*

5. How can you protect the surface of your work when using a sash clamp?

*Use scrap timber between the clamp and the work.*

## Assessor Observation Sheet – Garden furniture & construction equipment

US 12932 Construct timber garden furniture and items of basic construction equipment as a BCATS project (Level 2, Credit 8)

Student Name:	
Project 1:	
Project 2:	

### Assessor observation:

<b>Assessment criteria:</b> <i>This unit standard requires the completion of <b>two</b> projects – an item of garden furniture <b>and</b> an item of basic construction equipment.</i>		<b>Comments and/or notes</b>
Mark out, cut, machine and surface finish project according to job specifications	Project 1 <input type="checkbox"/> Project 2. <input type="checkbox"/>	
Assemble and finish project according to job specifications	Project 1 <input type="checkbox"/> Project 2. <input type="checkbox"/>	
Project is completed safely	Project 1 <input type="checkbox"/> Project 2. <input type="checkbox"/>	
Tools are looked after and put away correctly	Project 1 <input type="checkbox"/> Project 2. <input type="checkbox"/>	
Evidence of finished projects attached (may be verified photos)	Project 1 <input type="checkbox"/> Project 2. <input type="checkbox"/>	
Assessor name: .....	<b>RESULT:</b> A = Achieved, N = Not Yet Achieved	
Assessor signature: ..... Date: .....		

# Assessment Schedule

## US 12932 Construct timber garden furniture and items of basic construction equipment as a BCATS project (Level 2, Credit 8)

Credit for this unit standard requires the completion of two projects – an item of garden furniture and an item of basic construction equipment. Examples of basic construction equipment include saw stool, trestle, step ladder, workbench.

Outcome 1	Prepare a cutting list for timber projects	Assessment evidence and judgement
ER 1.1	Project components are identified from working drawings and job specifications.	Evidence gathered using assessor observation sheet and cutting list showing; <ul style="list-style-type: none"> <li>• All components for both projects are identified correctly.</li> </ul>
ER1.2	Cutting list is in accordance with working drawings and job specifications.	Evidence gathered using cutting list; <ul style="list-style-type: none"> <li>• Cutting list for both projects is correct.</li> </ul>
Outcome 2	Mark out, cut, and machine components for timber projects	Assessment evidence and judgement
ER 2.1	Project components are marked out and cut to size in accordance with working drawings and job specifications.	Evidence gathered using assessor observation sheet and photograph(s) showing; <ul style="list-style-type: none"> <li>• Components for both projects are marked and cut cleanly and accurately.</li> </ul>
ER 2.2	Surface finish of components is in accordance with working drawings and job specifications.	Evidence gathered using assessor observation sheet and photograph(s) showing; <ul style="list-style-type: none"> <li>• Components for both projects are “finished” i.e. surface and/or edge treatment planed, sanded etc.</li> </ul>
Outcome 3	Assemble and finish timber projects.	Assessment evidence and judgement
ER 3.1	Project components are assembled in accordance with working drawings and job specifications.	Evidence gathered using assessor observation sheet and photograph(s) showing; <ul style="list-style-type: none"> <li>• All components for both projects are assembled correctly</li> <li>• Both projects are sturdy and stable.</li> </ul>
ER 3.2	Projects are finished in accordance with working drawings and job specifications.	Evidence gathered using assessor observation sheet and photograph(s) showing; <ul style="list-style-type: none"> <li>• Both projects are “finished” i.e. surface and/or edge treatment planed, sanded etc</li> </ul>
Outcome 4	Complete work operations.	Assessment evidence and judgement
ER 4.1	All operations are safely completed in accordance with workplace practice.	Evidence gathered using assessor observation sheet showing; <ul style="list-style-type: none"> <li>• Appropriate PPE selected and used</li> <li>• Tools used correctly and safely</li> <li>• Personal safety and safety of others observed.</li> </ul>
ER 4.2	Workplace, tools, plant and equipment are cleaned, and tools, plant and equipment stored in accordance with workplace practice.	Evidence gathered using assessor observation sheet showing; <ul style="list-style-type: none"> <li>• Work area cleaned</li> <li>• Waste disposed of</li> <li>• Tools, plant and equipment cleaned and stored correctly.</li> </ul>