

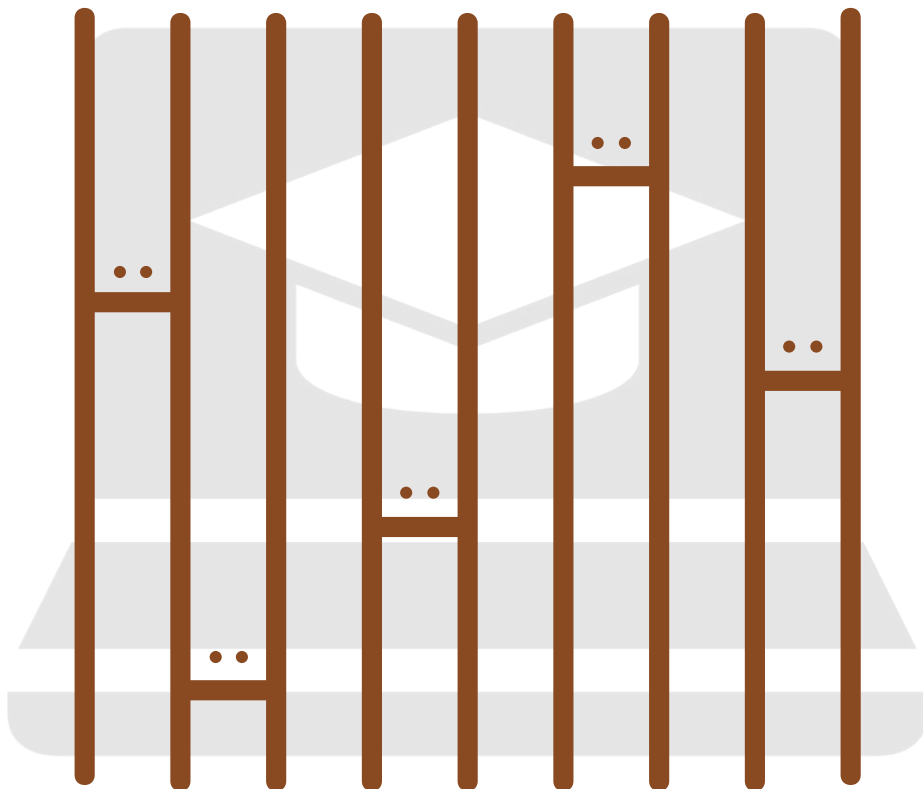


BCATS

BUILDING, CONSTRUCTION
AND ALLIED TRADE SKILLS

Timber deck

Teacher/Tutor resource



Unit Standard 12935 (v5), Level 2

Construct a spaced residential timber deck up to one metre high as a BCATS project.

8 CREDITS

BCITO
buildingpeople

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(BCITO)**

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Teaching and assessment tips

Purpose

This unit standard credits a learner who is able to construct a spaced residential timber deck, up to one metre high, off given plans and specifications.

The example provided in the student resource and supporting images are examples of various construction methods used to build spaced residential timber decks. Providing the spaced residential timber deck meets the unit standard's minimum criteria you may choose to use a different design and/or support your students to modify a different design.

There are different processes, machinery, and tools that could achieve the same or similar outcome to the examples provided and they are to take your guidance on these.

Students need to use project documentation to:

- calculate all the materials needed
- prepare an order for the materials
- set out pile positions and excavate pile holes
- place piles
- set out, cut and fix bearers and joists
- cut, fix and finish decking
- complete everything safely
- keep the site, tools, and equipment clean and tidy.

Unit Interpretation

A spaced residential timber deck up to one metre high must be constructed according to the plans and specifications. Please see the assessment schedule on the last page of this resource for more-detailed requirements.

A template for a materials order is available in the resource file for student use. The completed order, together with the learner's calculations, must be attached to the Assessor Observation sheet.

Photographic or other evidence to show that the spaced residential timber deck has been completed must be attached to the assessor observation sheet.

Assessment

Information to support assessment decisions should, wherever possible, be collected naturally as the BCATS project progresses.

Assessment of this unit standard consists of:

- **calculate materials required and prepare an order and**
- **completion of a spaced residential timber deck and**
- **completion of the Assessor Observation Sheet..**

Alignment with other unit standards

Developing programmes that integrate teaching and learning helps to provide students with meaningful and manageable learning opportunities. The following unit standards are not an exhaustive list of which you could include in your programme and nor should one feel obligated to offer all as linked units. Other unit standards you include will depend on your overall programme of study and what best meets your learners' needs.

Constructing a spaced residential timber deck can contribute to shared, complementary, or partial assessment of other standards, such as 24350, 24351, and 12927.

Level 2

24358: *Plan and monitor the construction of a BCATS project, and quality check the product*

As students are required to work off a plan and specifications, calculate the materials required and prepare an order for materials, they are in a position to plan and monitor the stages of construction and perform the quality checks required for US 24358.

24360: *Demonstrate knowledge of timber and other construction materials used in BCATS projects*

Alongside the required theory component of US 24360, students constructing a spaced residential timber deck will use a variety of timber and other construction materials.

24354: *Demonstrate knowledge of health and safety legislation and apply safe working practices in a BCATS environment*

Alongside the required theory component of US 24354, the construction of a spaced residential timber deck provides students with the opportunity to demonstrate safe practices.

24350: *Identify, select, use, and maintain portable power tools for BCATS projects*

12927: *Demonstrate knowledge of, select, maintain, and use hand tools used for BCATS projects*

The residential deck can be one of two practical projects required for each of the unit standards noted above. While students may not necessarily complete the theory aspects of the standards as part of constructing the deck, they should be encouraged to document evidence of the tools and machinery they selected and used.

Assessment Schedule

US 12935 (v5) - Construct a spaced residential timber deck up to one metre high as a BCATS project (Level 2, Credit 8)

Outcome 1	Calculate quantities and prepare an order for materials for a spaced residential timber deck up to one metre high.	Assessment evidence and judgement
PC 1.1	Quantities of materials are calculated from BCATS project documentation.	Evidence gathered from students calculations and the assessor observation sheet showing: <ul style="list-style-type: none"> • quantities of timber for piles, bearers, joists, and decking are calculated correctly.
PC 1.2	An order for materials is prepared in accordance with BCATS project documentation.	Evidence gathered using order list: <ul style="list-style-type: none"> • order list for deck is correct.
Outcome 2	Set out and construct a spaced residential timber deck up to one metre high.	Assessment evidence and judgement (photos to be attached)
PC 2.1	Pile positions are set out and holes excavated in accordance with BCATS project documentation.	Evidence gathered from the deck project and the assessor observation sheet showing: <ul style="list-style-type: none"> • set out and excavation is neat and accurate.
PC 2.2	Piles are placed in accordance with BCATS project documentation.	Evidence gathered from the deck project and the assessor observation sheet showing: <ul style="list-style-type: none"> • piles are placed correctly with uncut end in ground.
PC 2.3	Bearers and joists are set out, cut and fixed in accordance with BCATS project documentation.	Evidence gathered from the deck project and the assessor observation sheet showing: <ul style="list-style-type: none"> • bearers and joists are set out, cut and fixed correctly.
PC 2.4	Decking is cut, fixed and finished in accordance with BCATS project documentation.	Evidence gathered from the deck project and the assessor observation sheet showing: <ul style="list-style-type: none"> • decking is cut, fixed and finished correctly.
Outcome 3	Complete work operations.	Assessment evidence and judgement
PC 3.1	All operations are safely completed in accordance with workplace practice.	Evidence gathered from the deck 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.
PC 3.2	Workplace, tools, plant and equipment are cleaned, and tools, plant and equipment stored in accordance with workplace practice.	Evidence gathered from the deck 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.

