



Make a cupboard

Teacher/Tutor resource

BCATS

BUILDING, CONSTRUCTION
AND ALLIED TRADE SKILLS



Unit Standard 25921 (v3), Level 2

Make a cupboard with a drawer
as a BCATS project. 6 CREDITS

BCITO
buildingpeople

**Building and Construction Industry Training Organisation
(BCITO)**

**Level 5, 234 Wakefield Street
PO Box 2615
Wellington 6140
0800 422 486
www.bcito.org.nz
© 2020 BCITO**

All rights reserved.

No part of this work may be reproduced, adapted, modified, copied or transmitted in any form or by any means, including by way of example only, written, graphic, electronic, mechanical, reprographic, photocopying, recording, taping or information retrieval systems, without the written permission of the publisher.

Table of contents

	Page
Teaching and assessment tips	4
Alignment with other unit standards	5
Assessment schedule	7

Teaching and assessment tips

Purpose

This unit standard credits a learner who is able to construct a cupboard with a drawer to an acceptable standard off given plans and specifications.

The example provided in the student resource is an example only. Providing the cupboard 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. As noted in the student resource, there are different processes, machinery, and tools that could achieve the same or similar outcome to the example provided and they are to take your guidance on these.

Students need to:

- complete a cutting list for a cupboard with a drawer
- mark out, cut and machine the required materials to an acceptable standard
- assemble the required components (parts) to an acceptable level of accuracy
- finish the cupboard
- complete everything safely
- keep their work area, tools, and equipment clean and tidy.

Unit Interpretation

The cupboard for this unit standard must include cupboard carcass, cupboard door(s), and drawer(s). Please see the assessment schedule on the last page of this resource for more-detailed requirements.

A template for developing a cutting list is available in the resource file for student use. The cutting list must be attached to the Assessor Observation sheet.

Photographic or other evidence to show that the cupboard 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:

- **completion of a cutting list and**
- **completion of a cupboard with a drawer to an acceptable standard and**
- **completion of the Assessor Observation Sheet.**

Alignment with other unit standards

You can include this unit in a level 1 or 2 programme.

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 you 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.

Making a cupboard with a drawer can contribute to shared, complementary, or partial assessment of other standards; such as 24350, 24351, and 12927.

Level 1

Work required to complete this unit can contribute to assessment of US 25920 (*Use joints for a BCATS project*) and US 25919 (*Use hardware and fastenings for a BCATS project*). For the joints unit, a minimum of two types of joints need be used and these can easily be incorporated in the cupboard design. Similarly, incorporating into the cupboard design four different items of hardware and fastenings will enable the award of US 25919.

As the cupboard and drawer will need handles and hinges, as well as components having to be connected via nails, screws, or adhesives, it would be very difficult not to achieve these two other units while completing the cupboard.

24355 *Demonstrate knowledge of construction and manufacturing materials used in BCATS projects*

This unit aligns itself well to 'making a cupboard with a drawer' as students need to establish job requirements, select construction and manufacturing materials for a practical project, and describe the properties of four materials (including timber) and evaluate their suitability to meet job requirements. Students making a cupboard are able to compare timbers, manufactured boards such as MDF and plywood, adhesives, and finishers such as oil and stain. Note that US 24355 requires more than one project.

24356 *Apply elementary procedures and processes for a BCATS project*

To achieve US 24356, students are required to complete a construction project where the student can establish the job requirements, prepare materials, mark out, shape, and join components, and finish the project. This standard requires timber and three other materials to be used in the construction process. Suitable cupboard materials could include manufactured board (back of cupboard and bottom of drawers), adhesives, and finishing materials.

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, specifications, and develop a cutting list they are in a position to plan and monitor the stages of construction and quality checks required for this unit standard.

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 cupboard provides students with the opportunity to demonstrate safe practices.

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

24351 *Demonstrate knowledge of and use specified fixed machinery in the construction of BCATS projects*

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

The cupboard 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 producing the cupboard, they should be encouraged to document evidence of the tools and machinery they selected and used.

Assessment Schedule

US 25921 (v3) - Make a cupboard with a drawer as a BCATS project (Level 2, Credit 6)

	Prepare a cutting list for a cupboard with a drawer as a BCATS project	Assessment evidence and judgement
Outcome 1 PC 1.1	Cupboard and drawer components are identified from working drawings and job specifications.	Evidence gathered from the student's calculations and the assessor observation sheet showing: <ul style="list-style-type: none"> • Components are identified correctly.
PC 1.2	Cutting list is prepared in accordance with working drawings and job specifications.	Evidence gathered from the student's calculations and the assessor observation sheet showing: <ul style="list-style-type: none"> • Cutting list is legible and correct.
Outcome 2	Mark out, cut, and machine materials for a cupboard with a drawer as a BCATS project.	Assessment evidence and judgement
PC 2.1	Cupboard and drawer components are marked out and cut to size in accordance with BCATS project documentation.	Evidence gathered from the cupboard project and the assessor observation sheet showing: <ul style="list-style-type: none"> • Cupboard carcass, cupboard doors, drawer guides, and drawers are accurately and correctly marked out and cut.
PC 2.2	The surface finish of components is of the standard specified in BCATS project documentation.	Evidence gathered from the cupboard project and the assessor observation sheet showing: <ul style="list-style-type: none"> • Surface finish for each component is of the required standard.
Outcome 3	Assemble and finish a cupboard with a drawer as a BCATS project	Assessment evidence and judgement (please take photos to verify)
PC 3.1	Cupboard and drawer components are assembled and fitted in accordance with working drawings and job specifications.	Verified photos of the cupboard project and the assessor observation sheet showing: <ul style="list-style-type: none"> • Cupboard components are correctly assembled and fitted.
PC 3.2	Cupboard is finished in accordance with working drawings and job specifications.	Verified photos of the cupboard project and the assessor observation sheet showing: <ul style="list-style-type: none"> • Cupboard is finished in accordance with working drawings and job specifications.
Outcome 4	Complete work operations	Assessment evidence and judgement
PC 4.1	All operations are safely completed in accordance with workplace practice.	Evidence gathered from the cupboard project and the assessor observation sheet showing: <ul style="list-style-type: none"> • Appropriate PPE selected and used • Tools and materials used correctly and safely • Personal safety and safety of others observed.
PC 4.2	Workplace, tools, plant and equipment are cleaned, and tools, plant and equipment are stored in accordance with workplace practice.	Evidence gathered from the cupboard 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.

