6706-13 Level 1 Diploma in Carpentry and Joinery

September 2013 Version 1.1



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Task manual amendments

Amendments since version 1.0

Page 26 Unit 114, Task 3 Figure 1 Timber for router and sander amended.

Page 27 Unit 115, Task 1 and 2 Figure 1 Frame amended.

Candidate details



This *Practical task manual* is a record of your achievement in practical assessments. You must keep it in good condition and it must be stored in a safe place by your Assessor.

Please fill in all of your details before you carry out any assessments.

Candidate Details				
Surname	Forename(s)			
City & Guilds enrolment number				
Centre Details				
Name	Centre No			
I understand the requirements of the qualification and that all the work towards the assessments must be my own.				
Candidate signature (please print)				
Assessor name (please print)	Signed			
	Date			
	'			

Unit assessment overview Practical task completion record

To be completed by Assessor:

For each task, the points for each grade are Pass = 1, Merit = 2, and Distinction = 3 points.

Where there is a weighting given, (see Assessor guide: unit assessment overview) multiply the points by the weighting to be applied (eg to apply a weighting of 2, a distinction is: $3 \times 2 = 6$ points). Do not include pass/fail only tasks in the calculation, only graded.

Conversion chart			
Average Overall Grade			
1 – 1.5	Pass		
1.6 – 2.5	Merit		
2.6 – 3	Distinction		

Unit 113 Maintain and use carpentry and joinery hand tools

Task		Grade for task [†]	Points (graded tasks)
1 Maintain and store carpentry and joinery hand	tools	P/X	
2 Use carpentry and joinery handsaws		P/M/D/X	
3 Use carpentry and joinery hand-held planes		P/M/D/X	
4 Use carpentry and joinery chisels		P/X	
End of unit knowledge test		P/X	
	·	Total	
Assessor signature and date:	For graded tasks, divide total points by total number of graded tasks		÷ 2
	Average =		
	Overall grade (see conversion chart)		

[†]All tasks must be passed for the unit to be achieved.

Task	Grade for task
1 Use carpentry and joinery portable power drills and planers	P/X
2 Use carpentry and joinery portable power saws	P/X
3 Use carpentry and joinery portable power routers and sanders	P/X
End of unit knowledge test	P/X

Candidates must pass all tasks, and the

Average =

Overall grade (see conversion chart)

	end of unit knowledge test, for this unit to achieve a pass grade overall.		
		Overall grade	
Unit 115 Produce woodworkii	ng joints		
Task	Grade for task [†]	Weighting for task	Weighted Points
1 Mark out woodworking joints	P/M/D/X	1	
2 Produce basic woodworking joints and form a frame	P/M/D/X	2	
End of unit knowledge test	P/X		
		Total	
Assessor signature and date:	For graded tasks, divide total points by total of weightings		÷ 3

Authenticity and IQA/QC sampling

Assessor signature and date:

The assessor's signature on individual tasks will be taken as assurance that the judgements recorded are made on authentic candidate work produced under appropriate conditions. Please complete the declaration below to confirm this is the case.

I confirm that all tasks were conducted under conditions designed to assure the authenticity of the candidate's work, and am satisfied that, to the best of my knowledge, the work assessed was solely that of the candidate.			
I have judged all assessments against the relevant assessment and grading criteria and award the candidate the unit grades as calculated above.			
Assessor signature	Date		
*IQA signature and date	*QC signature and date		

^{*}IQA and QC signatures attest to the evidence available on the recorded date(s).

Instructions to candidates

About this document

This *Practical task manual* contains all of the practical assessment for the 6706-13 Level 1 Diploma in Carpentry and Joinery.

Practical tasks

These tasks let you show your practical skills and are usually graded pass, merit or distinction – a few are pass only. These tasks will be assessed by your assessor watching how you carry out the tasks and checking your final pieces of work.

Before you carry out the task you will be told how it will be assessed and you should read the observation checklist at the end of each task so you know what you need to do to get each grade.

You can ask your assessor for help in understanding the task instructions, but all of the work must be your own.

Health and safety

You must use safe working practices at all times.

You are responsible for your own safety and the safety of others. If you behave in an unsafe way, you will be stopped and given a warning. If you do not meet all of the Health and Safety requirements, the assessment will be stopped. Your assessor will not be able to let you try the task again until they are sure you can work safely.

Time considerations

Each task shows how long it is likely to take. This is for guidance and so you can plan your work. If you have a good reason for needing more time you must explain this to your assessor as soon as possible so they can decide whether you can have more time.

Security

Where an assignment is taken over more than one session, all documentation, paperwork and work products must be labelled carefully with your name and kept securely at the centre. Your assessor will give you directions about how to leave your work.

Opportunities to repeat tasks

The tasks are 'end tests' so you will only be asked to take the assessment when you have had the chance to do all of the learning and practice you need. You will be able to try the whole task again if you do not pass, but you will not be able to take the assessment again just to try to get a better grade.

Feedback

As well as telling you the result for the task your assessor will give you feedback. They will give you a feedback sheet with details of what you could do to improve, and also what you did well in. This will help you to prepare for other assessments or to retake the assessment if you need to.

Unit 113 Maintain and use carpentry and joinery hand tools

Task 1 Maintain and store carpentry and joinery hand tools

Expected time	45 minutes		
Task instructions	Sharpen a chisel.		
	Sharpen a plane.		
	Store the tools.		
	 Work according to the risk assessment and environmental and health and safety regulations. 		

AC	The candidate has	Pass	Merit	Distinction
2.1	worked to a given risk assessment for using hand tools			
2.2	honed and prepared hand tools ready for use			
	 safely removed blade from plane using correct tools 			
	 honed plane blade on diamond or oilstone to correct angle and square, with burr removed 			
	 honed chisel on diamond or oilstone to correct angle and square, with burr removed 			
	 correctly re-assembled plane and set up for use 			
2.3	stored hand tools and materials in a secure and safe manner, in line with centre procedures			
	retracted blade on plane			
2.4	followed current environmental and relevant health and safety regulations relating to working with carpentry and joinery hand tools, including			
	keeping a clean and tidy work area			

Task grading rules		Task grade:
To award a pass : every activity in the checklist must be successfully achieved.		
Assessor	Signature & Date	

Unit 113 Maintain and use carpentry and joinery hand tools Task 2 Use carpentry and joinery handsaws

Expected time	1 hour
Task instructions	Rip timber to 70 mm wide, as shown in Cut A.
	 Crosscut timber to 400 mm long as shown in Cut B.
	 Cut 50 mm radius corner as shown in Cut C.
	 Work according to environmental and health and safety regulations.
Diagrams	Figure 1 Handsaw cuts page 19

AC	The candidate has	Pass	Merit	Distinction
4.1	used carpentry and joinery handsaws to perform tasks in accordance with Figure 1	within	within	within
	 Cut A – ripped timber to width (not under size) 	3 mm	2 mm	1 mm
	 Cut A – ripped timber square within 1 mm over 15 mm thickness 			
	Cut B— crosscut timber to length and square across the face (not undersize)	within 3 mm	within 2 mm	within
	Cut B – crosscut timber square, within 1 mm, over 15 mm thickness			
	Cut C— cut curve in timber accurately	within 3 mm	within 2 mm	within 1 mm
4.2	followed current environmental and relevant health and safety regulations relating to working with carpentry and joinery handsaws, including			
	 keeping a clean and tidy work area 			

Task grading rules		Task grade:
To award a pachieved.		
To award a merit : in addition to the above, all 3 graded activities in the checklist must be achieved to at least a merit standard.		
To award a cactivities in t		
Assessor	Signature & Date	

Unit 113 Maintain and use carpentry and joinery hand tools Task 3 Use carpentry and joinery hand-held planes

Expected time	2 hours
Task instructions	 Plane a piece of timber flat, straight, square and parallel to a finished size of 68 mm x 43 mm.
	Rebate the timber as per Figure 1.
	Chamfer the end grain.
	 Work according to environmental and health and safety regulations.
Diagrams	Figure 1 Block to plane and rebate page 20

AC	The candidate has	Pass	Merit	Distinction
6.1	used carpentry and joinery hand-held planes to perform tasks in accordance with Figure 1			
	 timber planed straight within 0.5 mm across four faces 			
	 timber planed flat, square and parallel to finished size of 68 mm x 43 mm (not undersize) 	within 3 mm	within 2 mm	within 1 mm
	 rebated as per Figure 1 with dimensions (not over sized) 	within 2 mm	within 1 mm	within 0.5 mm
	 end grain chamfered within 1 mm of Figure 1 dimensions 			
	 end grain chamfered flat and without breakout 			
6.2	followed current environmental and relevant health and safety regulations relating to working with hand-held planes, including			
	 keeping a clean and tidy work area 			

Task grading rules		Task grade:
To award a g achieved.		
To award a merit : in addition to the above, both (2) graded activities in the checklist must be achieved to at least a merit standard.		
To award a c activities in t		
Assessor	Signature & Date	

Unit 113 Maintain and use carpentry and joinery hand tools Task 4 Use carpentry and joinery chisels

Expected time	2 hours 30 minutes
Task instructions	 Cut a through housing. Chop a through mortice. Chop a recess. Produce a stopped chamfer. Work according to environmental and health and safety regulations.
Diagrams	Figure 1 Timber block for chisel task page 21

AC	The candidate has	Pass	Merit	Distinction
8.1	use carpentry and joinery chisels and mallet to perform tasks in accordance with Figure 1			
	 cut the through housing width to the dimensions on Figure 1 to within 1 mm (not over sized). 			
	 cut the through housing depth to the dimensions on Figure 1 (± 1 mm) 			
	 chopped the through mortice to the dimensions on Figure 1 within 1 mm (not over sized) 			
	 mortice width and length consistent to accept a dummy tenon 			
	mortice chopped without bruising			
	mortice chopped with no breakout			
	 chopped a recess to the dimensions on Figure 1 to within 1 mm (not over sized) 			
	 chopped recess to the depth shown on Figure 1 (± 1 mm) 			
	 produced a stopped chamfer to length (± 2 mm) 			
	 produced a stopped chamfer parallel (± 1 mm) 			
	 produced a stopped chamfer to depth (± 1 mm) 			
8.2	followed current environmental and relevant health and safety regulations related to working with carpentry and joinery chisels, including			
	keeping a clean and tidy work area			

Task grading rules		Task grade:
To award a pass : every activity in the checklist must be successfully achieved.		
Assessor	Signature & Date	

Task 1 Use carpentry and joinery portable power drills and planers

Expected time	4 hours
Task instructions	 Plane timber to a width of 68 mm. Drill, countersink and fix batten. Rebate. Chamfer. Drill holes.
	 Work according to environmental and health and safety regulations (including PUWER).
Diagrams	Figure 1 Batten page 22 Figure 2 Timber block with batten page 23

AC	The candidate has	Pass	Merit	Distinction
2.1	checked cables, power tools and guards,			
2.2	including checking for a valid test certificate			
2.5				
2.4	changed planer blades correctly			
8.1	adjusted and used portable power planer to work timber in accordance with Figure 2			
	planed to width within 1 mm			
2.3 4.1	used portable power drills to perform tasks in accordance with Figures 1 and 2			
	 drilled, countersunk and fixed batten flush within 1 mm, as per Figures 1 and 2 			
8.1	 planed rebate width within 1 mm, as per Figure 2 			
	 planed rebate depth within 1 mm, as per Figure 2 			
	 produced a chamfer parallel (± 1 mm) 			
	produced a chamfer to depth (± 1 mm)			
4.1	 drilled two holes through with a flat bit (10-12 mm) with no break out 			
	 drilled flat bit holes through square in both directions (± 1 mm) 			
2.4	changed tooling correctly			
	 drilled two blind holes to depth with an auger bit (15-18 mm) (± 1 mm) 			

AC	The candidate has	Pass	Merit	Distinction
	 all four holes centred in correct positions within 2 mm, as per Figure 2 			
2.6	 cleaned and stored power tools safely and securely on completion 			
2.7 4.2 8.3	followed current environmental and relevant health and safety regulations relating to working with portable power drills and a power planer			

Task grading rules		Task grade:
To award a pass : every activity in the checklist must be successfully achieved.		
Assessor	Signature & Date	

Task 2 Use carpentry and joinery portable power saws

Expected time	1 hour
Task instructions	 Use a chopsaw to cut angles across the face and down the edge of the timber.
	 Use a jigsaw to cut curves and shapes in manufactured board material.
	 Work according to environmental and health and safety regulations (including PUWER).
Diagrams	Figure 1 Timber block for chopsaw page 24 Figure 2 Manufactured board for jigsaw page 25

AC	The candidate has	Pass	Merit	Distinction
2.12.22.5	checked cables, power tools and guards, including checking for a valid test certificate			
6.1	used portable power chop saw to cut timber in accordance with Figure 1			
	 cut a 63° angle across the face of the timber as per Figure 1 			
	 cut a 75° angle through the thickness of the timber as per Figure 1 			
	 timber cut to length (± 1 mm) 			
2.4	changed jigsaw blade correctly			
6.2	used portable power jigsaw to cut board materials in accordance with Figure 2			
	 cut an external curve with a radius of 150 mm as per Figure 2 (+ 2 mm, not under sized) 			
	 cut internal aperture as per Figure 2 			
2.6	cleaned and stored power tools safely and securely on completion			
6.3	followed current environmental and relevant health and safety regulations relating to working with portable power saws			

Task grading rules		Task grade:
To award a pachieved.	pass: every activity in the checklist must be successfully	
Assessor	Signature & Date	

Task 3 Use carpentry and joinery portable power routers and sanders

Expected time	2 hours
Task instructions	 Router a piece of timber to form a housing a rebate an ovolo mould. Sand the face side. Work according to environmental and health and safety regulations (including PUWER).
Diagrams	Figure 1 Timber for router and sander page 26

AC	The candidate has	Pass	Merit	Distinction
8.2	adjusted and used portable power router to work timber in accordance with Figure 1			
	 housing routered to position within 1 mm 			
	 housing to depth (± 1 mm) 			
	• rebate to width (± 1 mm)			
	• rebate to depth (± 1 mm)			
	 ovolo mould to depth (± 1 mm) 			
	ovolo corner square without rounding			
2.4	 router cutters changed correctly according to manufacturer's instructions 			
10.1	used portable power orbital sander to finish work in accordance with Figure 1			
	 sanded off marking out lines from face side, without rounding the edges 			
8.3 10.2	followed current environmental and relevant health and safety regulations relating to working with portable power routers and sanders			

Task gradi	Task grade:	
To award a pachieved.	pass: every activity in the checklist must be successfully	
Assessor	Signature & Date	

Unit 115 Produce woodworking joints Task 1 Mark out woodworking joints

Expected time	2 hours
 Produce a setting out rod showing all joint details in Figure Use to mark out the timber. Work according to environmental and health and safety regulations. 	
Diagrams	Figure 1 Frame page 27 Figure 2 Tee bridle joint A page 28 Figure 3 Tee halving joint B page 29 Figure 4 Mortice and tenon joint C page 30 Figure 5 Dovetail halving joint D page 31 Figure 6 Stub mortice and tenon joint E page 32 Figure 7 Cross halving joint F page 33

AC	The candidate has	Pass	Merit	Distinction
4.1	produced a setting out rod			
	overall height within 1 mm			
	overall width within 1 mm			
	joint positions within 1 mm			
4.2	used a setting out rod when marking out			
4.3	used appropriate marking out tools to mark out			
5.1	 face and edge correctly selected and marked 			
	joint positions as per rod			
	shoulder lines square			
	gauging central	± 2 mm	± 1 mm	0 mm
	gauging for tenon set to mortice chisel			
	dovetail pitch correctly set	± 2 mm	± 1 mm	0 mm
	marked out wedge allowance			
4.4	followed current environmental and relevant health and safety regulations relating to marking out woodworking joints			

Task gradi	ng rules	Task grade:
To award a pachieved.	pass: every activity in the checklist must be successfully	
To award a r		
To award a cactivities in t		
Assessor	Signature & Date	

Unit 115 Produce woodworking joints Task 2 Produce basic woodworking joints and form a frame

Expected time	8 hours
Task instructions	 Work to a risk assessment. Complete a resource checklist. Produce the joints marked out in Task 1. Assemble the frame. Clean up the frame. Work according to environmental and health and safety
Diagrams	regulations. Figure 1 Frame page 27 Figure 2 Tee bridle joint A page 28 Figure 3 Tee halving joint B page 29 Figure 4 Mortice and tenon joint C page 30 Figure 5 Dovetail halving joint D page 31 Figure 6 Stub mortice and tenon joint E page 32 Figure 7 Cross halving joint F page 33

AC	The candidate has	Pass	Merit	Distinction
5.2	worked to a given risk assessment for using hand tools			
7.1	produced and assembled woodworking joints (dry fit first) to form the frame as per Figures 1-7	Four of six	Five of six	All six joints
	 joints tight fitting on both faces with no gaps exceeding 1 mm 	joints	joints	
	(no joints to have any more than a 2 mm gap)			
	 joints tight fitting on edges with no gaps exceeding 1 mm 	Four of six joints	Five of six joints	All six joints
	(no joints to have any more than a 2 mm gap)	Joints	Joints	
	• joints correctly positioned as per Figure 1	± 3 mm	± 2 mm	± 1 mm
	overall height and width correct	± 3 mm	± 2 mm	± 1 mm
	frame square	± 3 mm	± 2 mm	± 1 mm
	screws countersunk flush with surface			
	wedges inserted and not split			

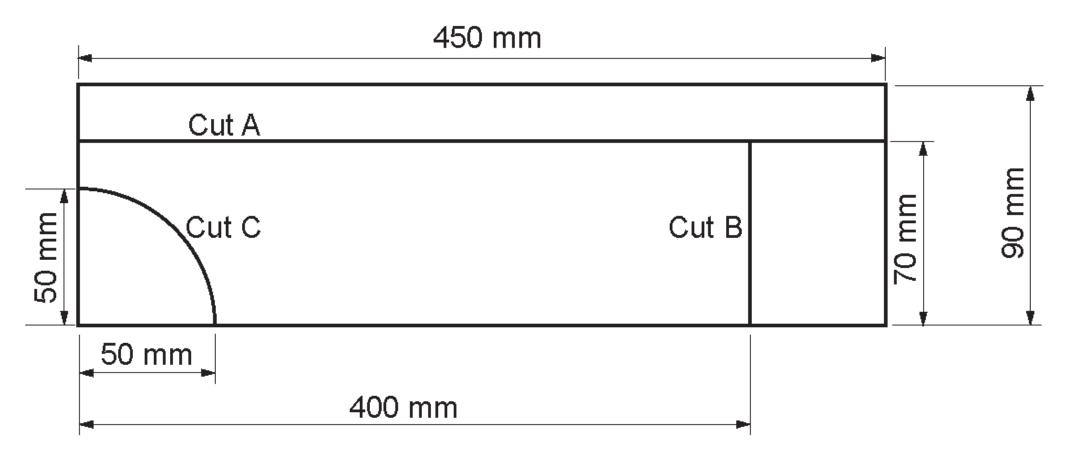
AC	The candidate has	Pass	Merit	Distinction
	twist not exceeding 2 mm			
	frame parallel both ways within 2 mm			
	 planed up inside edges prior to assembling 			
	 planed up ready for varnished finish without plane marks 			
	timber thickness and width	within 3 mm	within 2 mm	within
5.1 5.3 5.4	selected and used correct tools and equipment (candidates should complete the resource checklist provided)			
5.5	kept tools sharp and defects reported as appropriate			
5.6 7.2	followed current environmental and relevant health and safety regulations relating to using woodworking hand tools and joints, including • keeping a clean and tidy work area			

Task gradi	ng rules	Task grade:
To award a pachieved.	pass: every activity in the checklist must be successfully	
To award a r		
To award a cachieved to activities mu		
Assessor	Signature & Date	

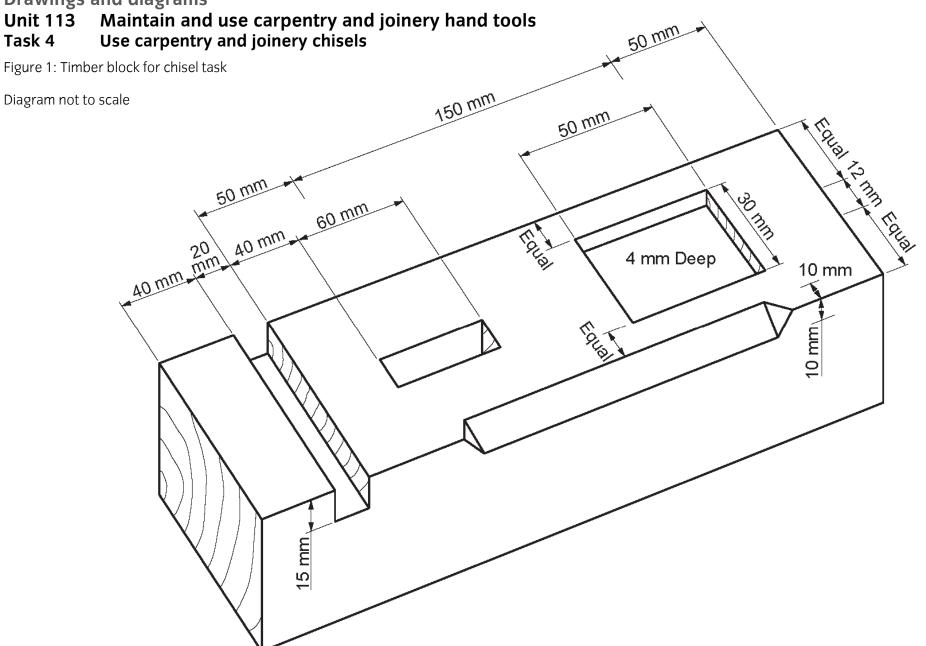
Unit 113 Maintain and use carpentry and joinery hand tools

Task 2 Use carpentry and joinery handsaws

Figure 1: Handsaw cuts



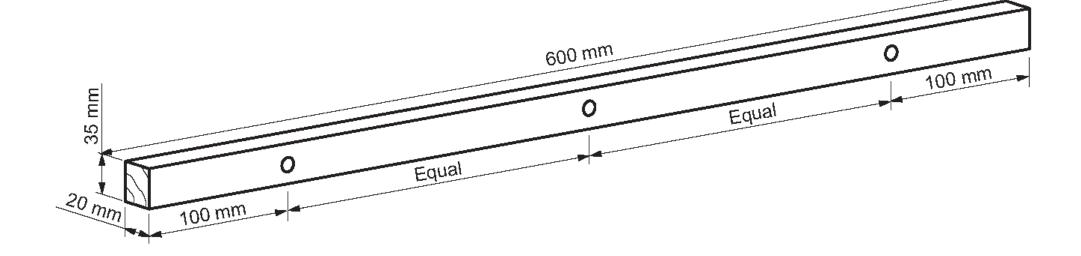
Maintain and use carpentry and joinery hand tools **Unit 113 Use carpentry and joinery hand-held planes** Task 3 Figure 1: Block to plane and rebate Diagram not to scale 15 mm Face Side 8 mm 8 mm, Face Edge



Unit 114 Prepare and use carpentry and joinery portable power tools

Task 1 Use carpentry and joinery portable power drills and planers

Figure 1: Batten

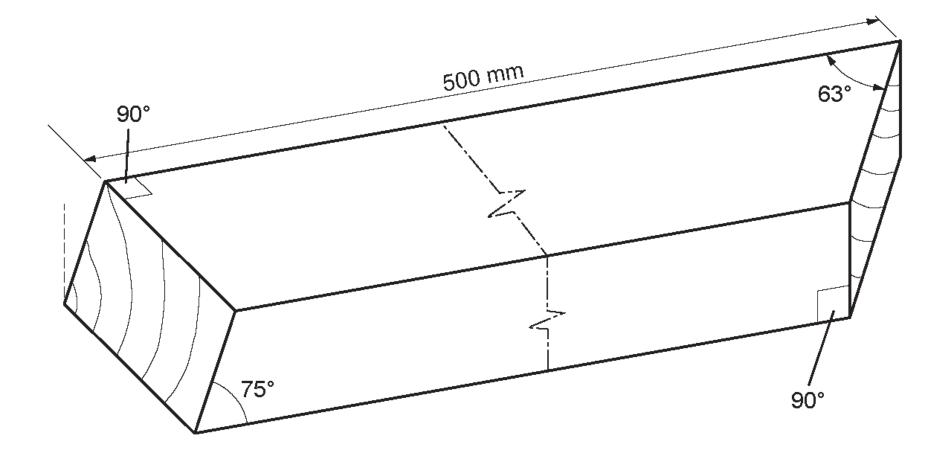


Unit 114 Prepare and use carpentry and joinery portable power tools 68 mm Task 1 Use carpentry and joinery portable power drills and planers Figure 2: Timber block with batten 35 mm 15 mm Diagram not to scale Flat bit 15 mm through holes Add him Auger bit blind holes 8 mm 100 mm 45 mm 35 mm

Unit 114 Prepare and use carpentry and joinery portable power tools

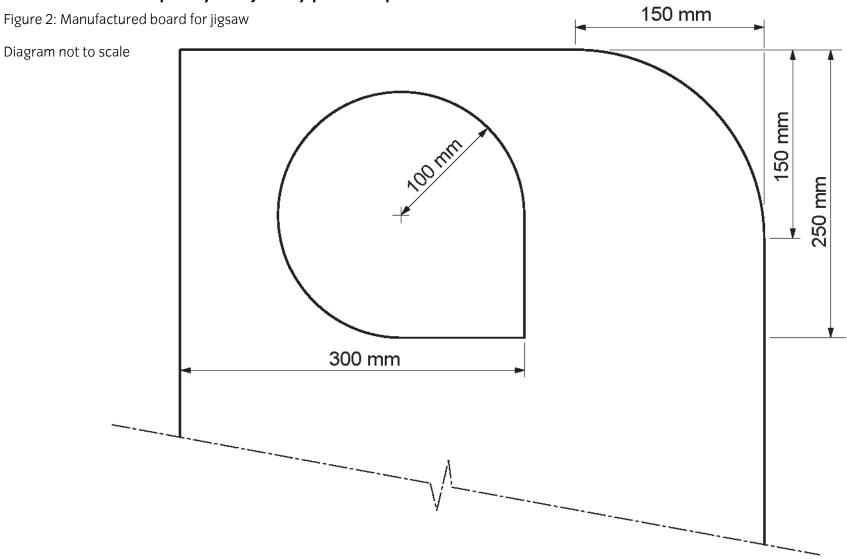
Task 2 Use carpentry and joinery portable power saws

Figure 1: Timber block for chopsaw



Unit 114 Prepare and use carpentry and joinery portable power tools

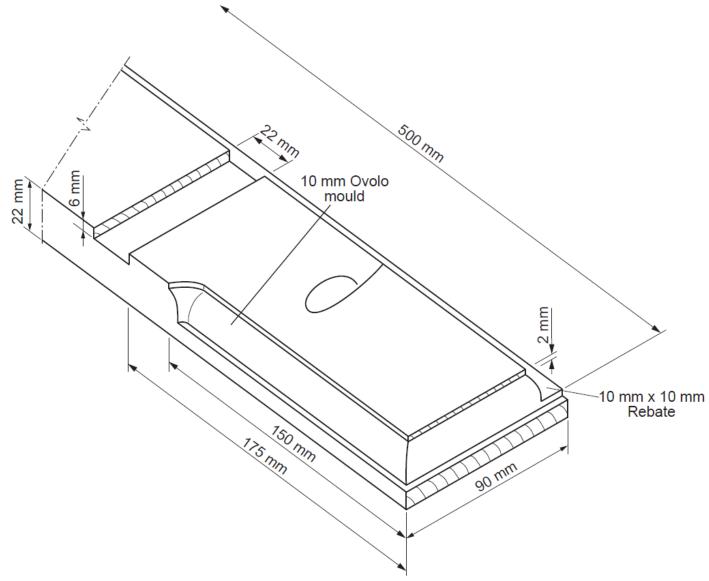
Task 2 Use carpentry and joinery portable power saws



Unit 114 Prepare and use carpentry and joinery portable power tools

Task 3 Use carpentry and joinery portable power routers and sanders

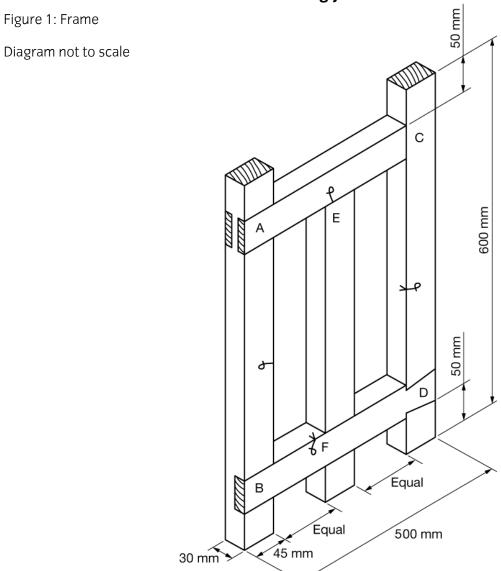
Figure 1: Timber for router and sander



Unit 115 Produce woodworking joints

Task 1 Mark out woodworking joints

Task 2 Produce basic woodworking joints and form a frame



Secure joints A and B with two screws countersunk below the surface

Screws to be positioned 10 mm in from all edges

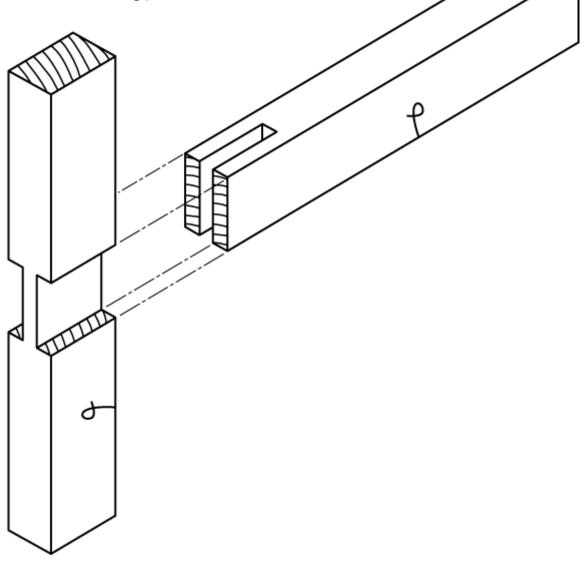
All materials 45 mm x 30 mm PAR

Unit 115 Produce woodworking joints

Task 1 Mark out woodworking joints

Task 2 Produce basic woodworking joints and form a frame

Figure 2: Tee bridle joint A

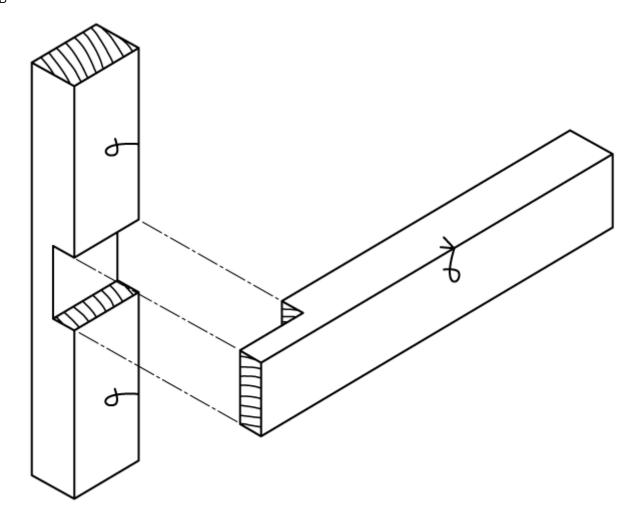


Unit 115 Produce woodworking joints

Task 1 Mark out woodworking joints

Task 2 Produce basic woodworking joints and form a frame

Figure 3: Tee halving joint B



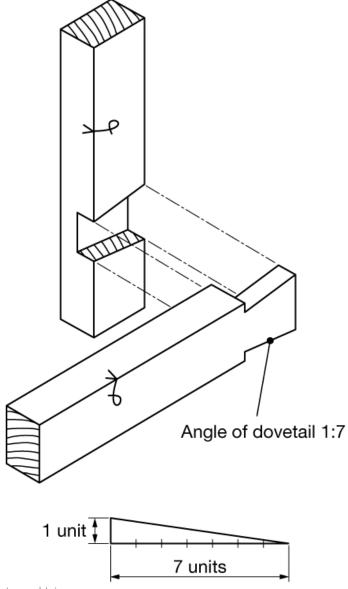
Produce woodworking joints **Unit 115** Task 1 Mark out woodworking joints Produce basic woodworking joints and form a frame Task 2 Figure 4: Mortice and tenon joint C Diagram not to scale

Unit 115 Produce woodworking joints

Task 1 Mark out woodworking joints

Task 2 Produce basic woodworking joints and form a frame

Figure 5: Dovetail halving joint D

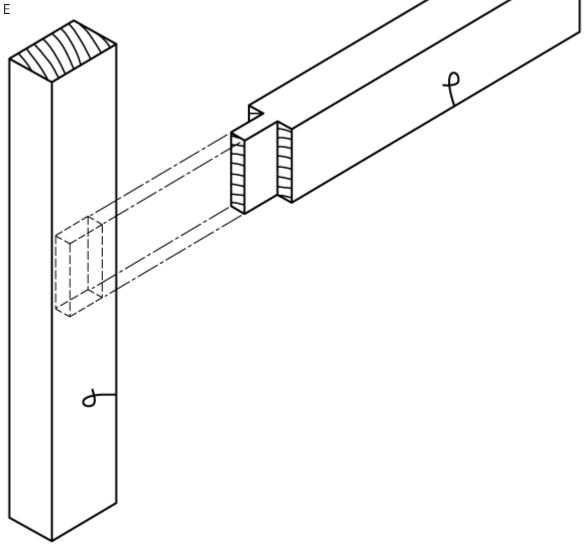


Unit 115 Produce woodworking joints

Task 1 Mark out woodworking joints

Task 2 Produce basic woodworking joints and form a frame

Figure 6: Stub mortice and tenon joint E

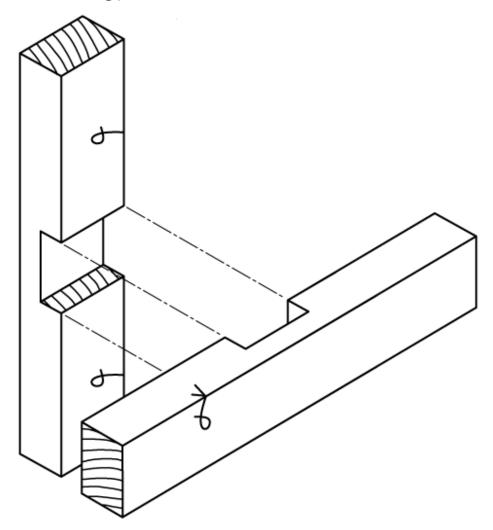


Unit 115 Produce woodworking joints

Task 1 Mark out woodworking joints

Task 2 Produce basic woodworking joints and form a frame

Figure 7: Cross halving joint F



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