6806-28 Diploma in Wood Machining for Joinery Manufacture at SCQF Level 5

September 2014 Version 1.0



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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 numbe	r	

Centre Details

Name		Centre No	

I understand the requirements of the qualification and that all the work towards the assessments must be my own.

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Unit assessment overview Practical task completion record

To be completed by Assessor:

All tasks must be passed for the unit to be achieved.

Unit 262 Setting and operating fixed sawing machines

Task	Grade for task
1 Change saw blades	P / X
2 Produce sawn materials to given sizes	P/M/D/X
End of unit knowledge test	P/X

Assessor signature and date:

The overall grade will be the same as the single graded task in this unit.

Overall grade

rade	

Unit 263 Setting and operating fixed planing machines

Task	Grade for task
1 Change cutter knives on a surface planer	P/X
2 Produce planed components to given sizes	P/M/D/X
End of unit knowledge test	P/X

Assessor signature and date:	The overall grade will be the same as the single graded task in this unit.
	Overall grade

Unit 264 Setting and operating fixed jointing machines

Task	Grade for task
1 Change tooling on jointing machines	P/X
2 Produce jointed components	P/X
End of unit knowledge test	P / X

Assessor signature and date:

Candidates must pass the tasks, and the end of unit knowledge test, for this unit to achieve a pass grade overall.

Overall grade

Unit 265 Setting and operating fixed profiling machines

Task	Grade for task
1 Change tooling on a spindle moulder	P/X
2 Produce profiled components	P/M/D/X
End of unit knowledge test	P/X

Assessor signature and date:

The overall grade will be the same as the single graded task in this unit.

Overall grade

Unit 266 Setting and operating fixed sanding machines

Task	Grade for task
1 Change abrasives on a belt sander	P/X
2 Sand assembled frame components	P/X
End of unit knowledge test	P/X

Assessor signature and date:	Candidates must pass the tasks, and the end of unit knowledge test, for this unit to achieve a pass grade overall.	
	Overall grade	

Unit 267 Setting and operating NC/CNC machines

Task	Grade for task
1 Set up and operate a NC/CNC router	P/X
End of unit knowledge test	P/X

Assessor signature and date:

Candidates must pass the task, and the end of unit knowledge test, for this unit to achieve a pass grade overall.

Overall grade

de

Instructions to candidates

About this document

This *Practical task manual* contains all of the practical assessment for the 6806-28 Diploma in Wood Machining for Joinery Manufacture at SCQF Level 5.

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. This will help you to prepare for other assessments or to retake the assessment if you need to.

Unit 262 Setting and operating fixed sawing machines Task 1 Change saw blades

Task coversheet

Expected time	2 hours
Task instructions• Complete a risk assessment for changing a rip saw and ban blade.	
	Change a rip saw blade.
	Change a bandsaw blade.
	 Work according to environmental and health and safety regulations.

AC	The candidate has	Pass	Merit	Distinction
3.1	completed the Risk Assessment form accurately, to meet current health and safety legislation			
3.2	selected a circular saw blade suitable for ripping			
3.3, 3.5	isolated the rip saw, or put in safe mode, as appropriate for the machine			
	removed the rip saw blade, without damage, using tools in accordance with manufacturer's instructions			
	safely stored the used rip saw blade to prevent damage			
	checked the replacement rip saw blade for faults prior to fitting			
	replaced the rip saw blade in the correct direction of rotation			
	tightened the securing nut in accordance with manufacturer's instructions			
	set the riving knife to current ACoP requirements			
	checked and replaced the crown guard			
	correctly stored all tooling			
	performed a test cut			
	left the machine in a safe condition			
3.2	selected a bandsaw blade suitable for cutting a curve with a small radius			
3.3, 3.5	isolated the bandsaw, or put in safe mode, as appropriate for the machine			

AC	The candidate has	Pass	Merit	Distinction
	removed and folded the bandsaw saw blade			
	safely stored the used bandsaw blade to prevent damage			
	Replaced the bandsaw blade in the correct direction of rotation			
	correctly tensioned and tracked the bandsaw blade			
	correctly set the guide and thrust wheel assembly above and below the table			
	replaced the guards correctly			
	correctly stored all tooling			
	performed a test cut			
	left the machine and area in a safe condition			
3.6	followed current environmental and relevant health and safety regulations relating to the changing of saw blades			

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

Unit 262 Setting and operating fixed sawing machinesTask 2 Produce sawn materials to given sizes

Task coversheet

Expected time	2 hours
Task instructions	 Complete a risk assessment Cut materials economically and safely according to the cutting list
	 Cut materials economically and safety according to the cutting list provided
	 Work according to environmental and health and safety regulations.
Diagrams	Figure 1 Door elevation page 28 Figure 2 Vertical section page 29 Figure 3 Horizontal sections page 30 Figure 4 Bolection moulding and horn detail page 31 Figure 5 Rail to stile joint detail and raised and fielded panel detail page 32 Appendix A Cutting list page 36

AC	The candidate has	Pass	Merit	Distinction
5.1	completed the Risk Assessment form accurately, to meet current health and safety legislation			
	(note: where a risk assessment has been carried out for a previous task, the same form may be added to for this criteria)			
3.4, 5.2, 5.3, 5.4	selected the correct timber stock			
	isolated the crosscut saw, or put in safe mode, as appropriate for the machine			
	set length stops correctly			
	set the guard height correctly			
	checked that extraction is in operation prior to running the machine			
	crosscut all components safely and accurately to length using stops	Within 3 mm	Within 2 mm	Within 1 mm
	isolated the rip saw, or put in safe mode, as appropriate for the machine			
	correctly adjusted the height of the saw blade			
	adjusted the guards to the size of material being cut			
	correctly positioned the fence for ripping			

AC	The candidate has	Pass	Merit	Distinction
	checked that extraction is in operation prior to running the machine			
	ripped all components safely and accurately to width (not undersized)	Within 3 mm	Within 2 mm	Within 1 mm
	Isolated the bandsaw, or put in safe mode, as appropriate for the machine			
	set the guard position and guide assembly correctly			
	used the jig provided to safely cut wedges			
	accurately cut haunches to ensure the correct fit in width and depth (not oversized)	Within 3 mm	Within 2 mm	Within 1 mm
	cut horns accurately to the template within 1 mm (not undersized)			
	isolated the dimension saw, or put in safe mode, as appropriate for the machine			
	adjusted the guards to the size of material being cut			
	checked that extraction is in operation prior to running the machine			
	cut the top panels to the size given and the angle on the rod (not undersized)	Within 0.75 mm	Within 0.50 mm	Within 0.25 mm
	cut the bottom panel to the size given on the rod (not undersized)			
	mitred the bolection mouldings to fit round the bottom panel, without gaps exceeding 0.5 mm			
5.5	followed current environmental and relevant health and safety legislation relating to cutting operations			
	selected and used appropriate PPE			

Task grading rules		Task grade:
Every activity in the checklist must be successfully achieved to award a pass grade.		
In addition to the above, all 4 graded activities in the checklist must be achieved to at least a merit standard to award a merit grade.		
In addition to both of the above, checklist must be achieved to at award a distinction grade.		
Assessor Name		
Assessor Signature		
Date		

Unit 263 Setting and operating fixed planing machines Task 1 Change cutter knives on a surface planer

Task coversheet

Expected time	2 hours
Task instructions	 Complete a risk assessment for changing cutter knives on a surface planer. Change cutter knives. Work according to environmental and health and safety regulations.

AC	The candidate has	Pass	Merit	Distinction
3.1	completed the Risk Assessment form accurately, to meet current health and safety legislation			
3.2	selected cutter knives suitable for the machine cutter block in use			
3.3, 3.4, 3.5	isolated the surface planer, or put in safe mode, as appropriate for the machine			
	removed the bridge guard and pushed back the fence			
	adjusted the tables to gain access to the cutter block			
	removed the cutter knives from the block, without damage, using tools in accordance with manufacturer's instructions			
	safely stored used cutter knives to prevent damage			
	cleaned the cutter block			
	checked the replacement cutter knives for faults prior to fitting			
	replaced the cutter knives in accordance with manufacturer's instructions			
	re-set the outfeed table to the height of the cutting circle			
	re-set the infeed table to the height required			
	replaced bridge guard and re-positioned fence correctly			
	machined a test piece to check for accuracy of the outfeed table settings and adjusted if required			

AC	The candidate has	Pass	Merit	Distinction
	left the machine and area in a safe condition, with all tooling correctly stored			
3.6	followed current environmental and relevant health and safety regulations relating to the changing of cutter knives			

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

Unit 263 Setting and operating fixed planing machines Task 2 Produce planed components to given sizes

Task coversheet

Expected time	2 hours
Task instructions	 Complete a risk assessment Plane components safely according to the cutting list provided Work according to environmental and health and safety regulations.
Diagrams	Figure 1 Door elevation page 28 Figure 2 Vertical section page 29 Figure 3 Horizontal sections page 30 Figure 4 Bolection moulding and horn detail page 31 Figure 5 Rail to stile joint detail and raised and fielded panel detail page 32 Appendix A Cutting list page 36

AC	The candidate has	Pass	Merit	Distinction
5.1	completed the Risk Assessment form accurately, to meet current health and safety legislation			
	(note: where a risk assessment has been carried out for a previous task, the same form may be added to for this criteria)			
5.2, 5.3, 5.4	Isolated the surface planer, or put in safe mode, as appropriate for the machine			
	adjusted the depth of cut			
	positioned the fence correctly			
	positioned the bridge guard correctly			
	checked that extraction is in operation prior to running the machine			
	planed timber flat with no saw marks remaining and pitch marks not exceeding 2 mm			
	planed timber square with no saw marks remaining			
	correctly adjusted the height of the thicknesser bed			
	correctly adjusted the anti-friction rollers			
	correctly adjusted the feed speed to meet finished requirements			

AC	The candidate has	Pass	Merit	Distinction
	checked that extraction is in operation prior to running the machine			
	machined components to width (not undersized)	Within 0.75 mm	Within 0.5 mm	Within 0.25 mm
	machined components to thickness (not undersized)	Within 0.75 mm	Within 0.5 mm	Within 0.25 mm
	machined components to achieve minimum grain pick up and pitch marks not exceeding 2 mm	7 of 10 components	8 of 10 components	9 of 10 components
	machined components with no sawn timber remaining	7 of 10 components	8 of 10 components	9 of 10 components
5.5	followed current environmental and relevant health and safety legislation relating to planing operations			
	selected and used appropriate PPE			

Task grading rules		Task grade:
Every activity in the checklist must be successfully achieved to award a pass grade.		
In addition to the above, all 4 graded activities in the checklist must be achieved to at least a merit standard to award a merit grade.		
In addition to both of the above, all 4 graded activities in the checklist must be achieved to at least a distinction standard to award a distinction grade.		
Assessor Name		
Assessor Signature		
Date		

Unit 264 Setting and operating fixed jointing machines Task 1 Change tooling on jointing machines

Task coversheet

Expected time	2 hours
Task instructions	 Complete a risk assessment for changing tooling on jointing machines.
	Change a chisel on a morticer.
	Change scribing cutters on a tenoner.
	 Work according to environmental and health and safety regulations.

AC	The candidate has	Pass	Merit	Distinction
3.1	completed the Risk Assessment form accurately, to meet current health and safety legislation			
3.2	selected the required chisel			
3.3, 3.4,	isolated the morticer, or put in safe mode, as appropriate for the machine			
	removed the guard			
	removed the chisel and auger, without damage, using tools in accordance with manufacturer's instructions			
	safely stored the used chisel and auger to prevent damage			
	checked the replacement chisel and auger for faults prior to fitting			
	selected the appropriate fittings for the chisel and auger			
	fitted the selected chisel and auger into the machine, with appropriate clearance, in accordance with manufacturer's instructions			
	fitted the chisel square to the fence			
	replaced the guard			
	correctly stored all tooling			
	performed a test cut			
	left the machine and area in a safe condition			
	isolated the tenoner, or put in safe mode, as appropriate for the machine			

AC	The candidate has	Pass	Merit	Distinction
	removed the guards as required			
	fitted the required scribing cutters to block without damage, using tools in accordance with manufacturer's instructions			
	replaced the guards as required			
	correctly stored all tooling			
	performed a test cut			
	left the machine and area in a safe condition			
3.5	followed current environmental and relevant health and safety regulations relating to the changing of tooling for jointing machines			

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

Unit 264 Setting and operating fixed jointing machines Task 2 Produce jointed components

Task coversheet

Expected time	2 hours
Task instructions	 Complete a risk assessment Mark out components Mortice components safely according to the marking out Tenon components safely according to the marking out Work according to environmental and health and safety regulations.
Diagrams Figure 1 Door elevation page 28 Figure 2 Vertical section page 29 Figure 3 Horizontal sections page 30 Figure 4 Bolection moulding and horn detail page 31 Figure 5 Rail to stile joint detail and raised and fielded panel detail page 32	

AC	The candidate has	Pass	Merit	Distinction
5.1	completed the Risk Assessment form accurately, to meet current health and safety legislation			
	(note: where a risk assessment has been carried out for a previous task, the same form may be added to for this criteria)			
5.2, 5.3, 5.4, 5.5	Isolated the morticer, or put in safe mode, as appropriate for the machine			
	checked the chisel for size, square to fence and auger clearance			
	morticed components to the correct position in relation to the face marks within 1 mm			
	morticed components to the correct length within 1 mm (not oversized)			
	morticed haunches and stub mortices to the correct depth within 1 mm			
	morticed without breakout			
	isolated the tenoner, or put in safe mode, as appropriate for the machine			
	checked that the tenoning and scribing heads are in correct position			
	checked that the guards are fitted			

AC	The candidate has	Pass	Merit	Distinction
	checked that extraction is in operation prior to running the machine			
	machined all rails and the muntin to the given shoulder length within 1 mm (not undersized)			
	machined all tenons to fit the mortices, flush to the face within 0.5 mm			
	machined all tenons to fit the mortices, with a snug fit			
	scribed the shoulders tight to the moulding profile within 0.5 mm			
5.6	followed current environmental and relevant health and safety legislation relating to jointing operations			
	selected and used appropriate PPE			

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

Unit 265 Setting and operating fixed profiling machines Task 1 Change tooling on a spindle moulder

Task coversheet

Expected time	2 hours
Task instructions	 Complete a risk assessment for changing tooling on a spindle moulder.
	 Change tooling on a spindle moulder.
	 Work according to environmental and health and safety regulations.

AC	The candidate has	Pass	Merit	Distinction
3.1	completed the Risk Assessment form accurately, to meet current health and safety legislation			
3.2	selected the required cutter block			
3.3, 3.4	isolated the spindle moulder, or put in safe mode, as appropriate for the machine			
	removed the guards/power-feed			
	removed the false fence/adjusted the finger fence			
	removed the cutter block, without damage, using tools in accordance with manufacturer's instructions			
	safely stored the used cutter block to prevent damage			
	checked the replacement cutter block for faults prior to fitting and changed the cutters and limiters if required			
	fitted the selected cutter block into the machine in accordance with the manufacturer's instructions			
	selected the correct spindle speed for the block chosen			
	set the block height correctly			
	replaced the false fence/re-set the finger fence			
	replaced the guards/power-feed			
	broken through the false fence as appropriate			
	correctly stored all tooling			
5.4	performed a test cut			

AC	The candidate has	Pass	Merit	Distinction
	left the machine and area in a safe condition			
3.5	followed current environmental and relevant health and safety regulations relating to the changing of tooling for profiling machines			

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

Unit 265 Setting and operating fixed profiling machines Task 2 Produce profiled components

Task coversheet

Expected time	2 hours
Task instructions	 Complete a risk assessment Profile components safely according to the drawings provided Work according to environmental and health and safety regulations.
Diagrams	Figure 1 Door elevation page 28 Figure 2 Vertical section page 29 Figure 3 Horizontal sections page 30 Figure 4 Bolection moulding and horn detail page 31 Figure 5 Rail to stile joint detail and raised and fielded panel detail page 32

AC	The candidate has	Pass	Merit	Distinction
5.1	completed the Risk Assessment form accurately, to meet current health and safety legislation			
	(note: where a risk assessment has been carried out for a previous task, the same form may be added to for this criteria)			
5.3	checked that extraction is in operation prior to running the machine			
5.5	ploughed the grooves for the loose tongues to the correct depth	Within 0.75 mm	Within 0.50	Within 0.25 mm
	ploughed the grooves for the loose tongues to length using fixed end stops and the jig provided	Within 3 mm	Within 2 mm	Within 1 mm
	checked that the groove width allows the loose tongue to fit snugly			
	ploughed the groove for the panels to the correct depth	Within 0.75	Within 0.50	Within 0.25 mm
	checked that the groove width allows the panels to fit snugly			
	moulded the door components to the correct profile within 0.5 mm			
	moulded the door components, without dips and pitch marks not exceeding 2 mm			
	moulded the panel with no breakout			
	moulded the panel to fit the groove snugly			

AC	The candidate has	Pass	Merit	Distinction
	produced the rebate on the bolection mouldings accurately within 0.5 mm			
	produced the bevel on the bolection mouldings accurately within 0.5 mm			
5.2, 5.3, 5.5	selected, changed and set up tooling safely and appropriately and carried out pre-start checks prior to each profiling operation			
5.6	followed current environmental and relevant health and safety legislation relating to profiling operations			
	selected and used appropriate PPE			

Task grading rules		Task grade:
Every activity in the checklist must be successfully achieved to award a pass grade.		
In addition to the above, all 3 graded activities in the checklist must be achieved to at least a merit standard to award a merit grade.		
In addition to both of the above, all 3 graded activities in the checklist must be achieved to at least a distinction standard to award a distinction grade.		
Assessor Name		·
Assessor Signature		
Date		

Unit 266Setting and operating fixed sanding machinesTask 1Change abrasives on a belt sander

Task coversheet

Expected time	hours			
Task instructions	 Complete a risk assessment for changing abrasives on a belt sander. Change abrasives on a belt sander. Work according to environmental and health and safety regulations. 			

AC	The candidate has	Pass	Merit	Distinction
3.1	completed the Risk Assessment form accurately, to meet current health and safety legislation			
3.2	selected the required abrasive belt			
3.3, 3.4	isolated the belt sander, or put in safe mode, as appropriate for the machine			
	removed the existing abrasive belt, without damage, using tools in accordance with manufacturer's instructions			
	safely stored the used belt to prevent damage			
	checked the replacement belt for faults prior to fitting			
	fitted the selected belt in the correct direction of rotation, in accordance with manufacturer's instructions			
	run the machine to ensure the correct fitting of the belt			
	left machine and area safe and tidy with all tooling correctly stored			
3.5	followed current environmental and relevant health and safety regulations relating to the changing of abrasives for sanding machines			

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

Unit 266 Setting and operating fixed sanding machines Task 2 Sand assembled frame components

Task coversheet

Expected time	2 hours
Task instructions	 Complete a risk assessment Sand assembled frame components safely Work according to environmental and health and safety regulations.
Diagrams	Figure 1 Door elevation page 28 Figure 2 Vertical section page 29 Figure 3 Horizontal sections page 30 Figure 4 Bolection moulding and horn detail page 31 Figure 5 Rail to stile joint detail and raised and fielded panel detail page 32

AC	The candidate has	Pass	Merit	Distinction
5.1	completed the Risk Assessment form accurately, to meet current health and safety legislation			
	(note: where a risk assessment has been carried out for a previous task, the same form may be added to for this criteria)			
5.2, 5.3, 5.4	isolated the sander, or put in safe mode, as appropriate for the machine			
	checked that a suitable abrasive is fitted and free of defects			
	adjusted the table bed to suit sanding requirements			
	selected the correct feed speed as required			
	checked that extraction is in operation prior to running the machine			
	sanded components, without burn marks and no dips			
	sanded the assembled components, ensuring the joints are flush			
5.5	followed current environmental and relevant health and safety legislation relating to sanding operations			
	selected and used appropriate PPE			

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

Unit 267Setting and operating NC/CNC machinesTask 1Set up and operate a NC/CNC router

Task coversheet

Expected time	2 hours			
Task instructions	 Complete a risk assessment Set up and operate the NC/CNC router Work according to environmental and health and safety regulations. 			
Diagrams	Figure 6 NC/CNC routed panel and door page 33 Figure 7 NC/CNC routed panel and horizontal detail page 34 Figure 8 NC/CNC routed panel vertical section page 35			

AC	The candidate has	Pass	Merit	Distinction
3.1	completed the Risk Assessment form accurately, to meet current health and safety legislation			
3.2, 3.3, 3.4	selected the appropriate tooling			
	fitted tooling as per the manufacturer's instructions			
	selected the appropriate program			
	positioned the work piece correctly using appropriate holding devices			
	checked that extraction is in operation prior to running the machine			
	produced a panel mould detail in the correct position within 0.5 mm			
3.5	followed current environmental and relevant health and safety regulations relating to the use of NC/CNC machines			

Task grading rules	Task grade:	
To award a pass : every activity i achieved.		
Assessor Name		
Assessor Signature		
Date		

Figure 1 Door elevation

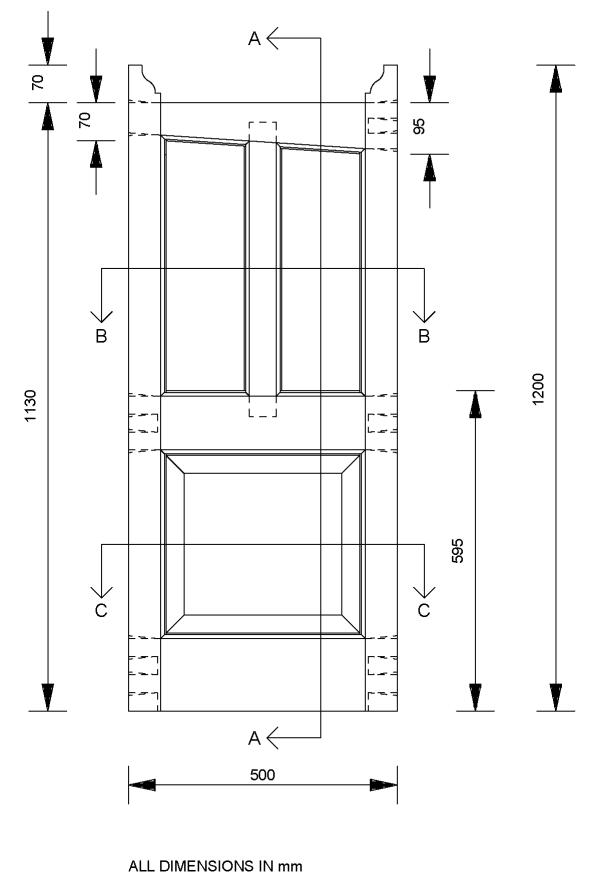


Figure 2 Vertical section

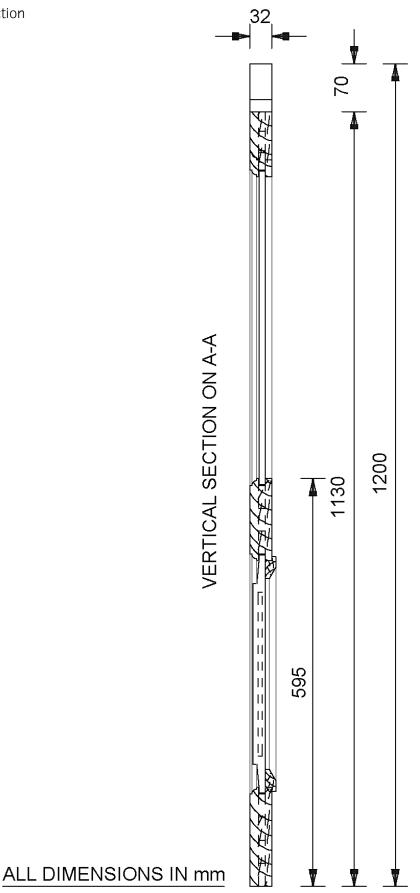
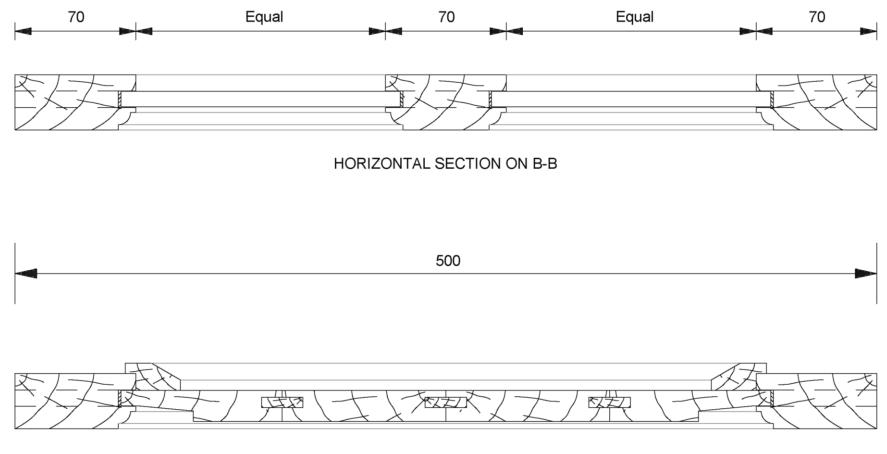


Figure 3 Horizontal sections



HORIZONTAL SECTION ON C-C

ALL DIMENSIONS IN mm

Figure 4 Bolection moulding and horn detail

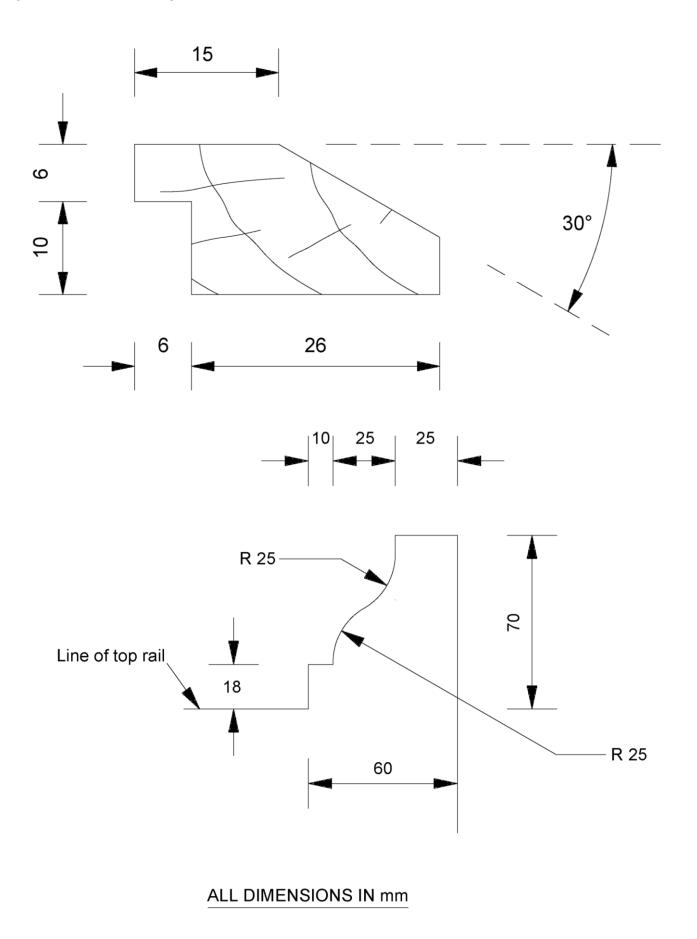
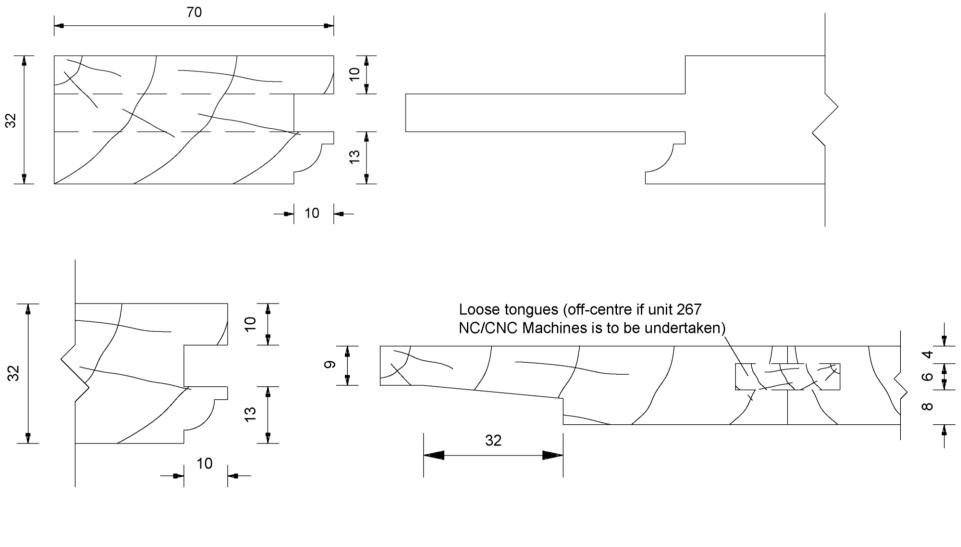


Figure 5 Rail to stile joint detail and raised and fielded panel detail

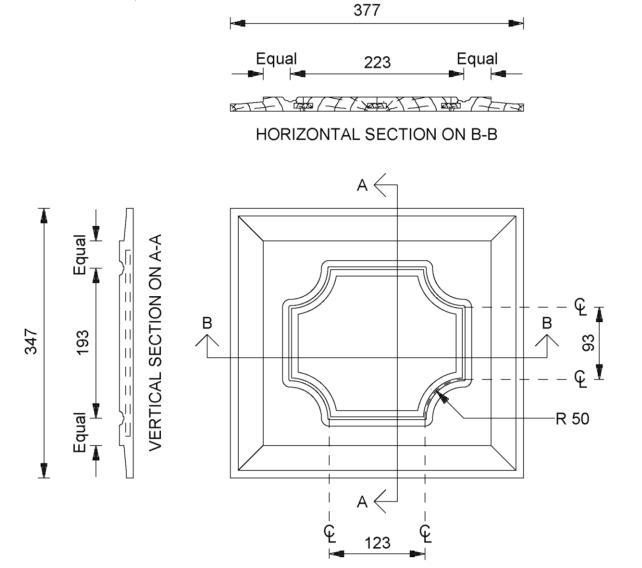


ALL DIMENSIONS IN mm

Drawings and diagrams

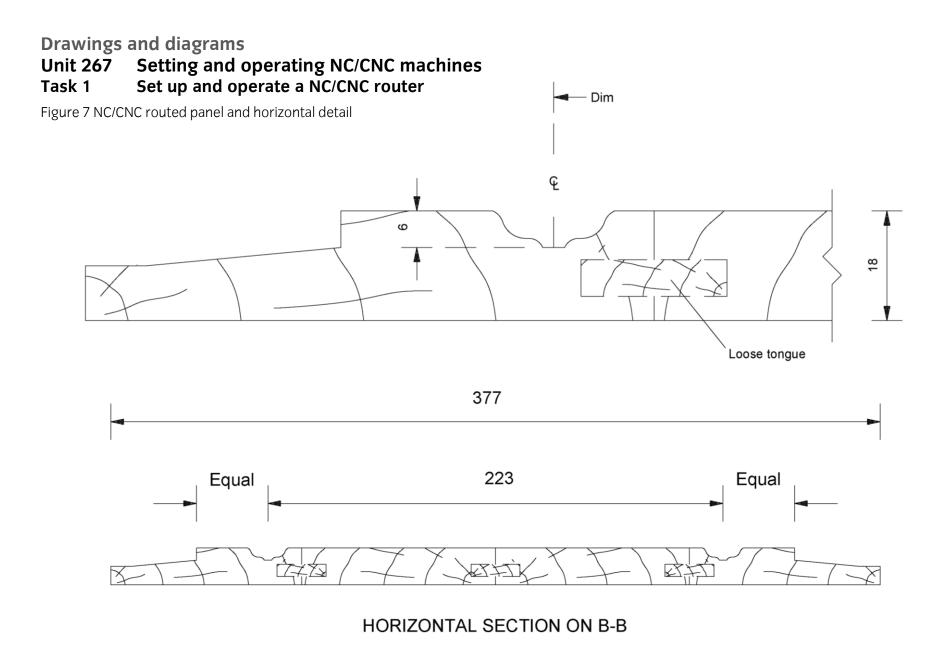
Unit 267 Setting and operating NC/CNC machines Task 1 Set up and operate a NC/CNC router

Figure 6 NC/CNC routed panel and door



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ALL DIMENSIONS IN mm

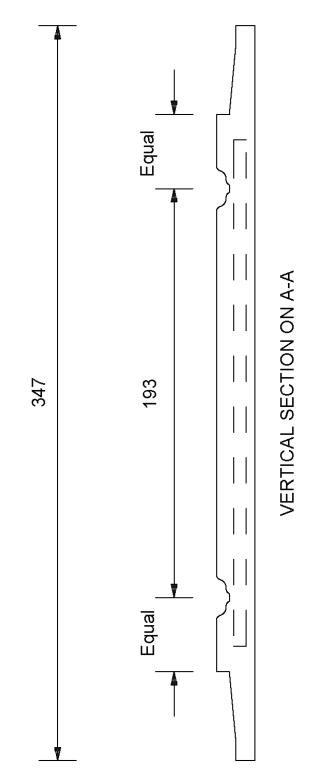
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Drawings and diagrams

Unit 267 Setting and operating NC/CNC machines

Task 1Set up and operate a NC/CNC router

Figure 8 NC/CNC routed panel vertical section



ALL DIMENSIONS IN mm

Appendices Appendix A – Cutting list

Component/item	Material	Quantity	Length	Sawn width	Sawn thickness	Planed width	Planed thickness	Comments
Stiles	European Redwood	2	1250	75	38	70	32	
Muntin	European Redwood	1	600	75	38	70	32	
Top rail	European Redwood	1	525	100	38	95	32	
Middle rail	European Redwood	1	525	125	38	120	32	
Bottom rail	European Redwood	1	525	150	38	145	32	
Bolection mouldings	European Redwood	2	900	38	22	32	16	Each piece to cut 2 (4 in total)
Panels	European Redwood	2	750	100	25	95	18	Each piece to cut 2 (4 in total). To be jointed using loose tongues
Panel	MDF/Plywood	1	482	162			9	
Panel	MDF/Plywood	1	468	162			9	

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As the UK's leading vocational education organisation, City & Guilds is leading the talent revolution by inspiring people to unlock their potential and develop their skills. We offer over 500 qualifications across 28 industries through 8500 centres worldwide and award around two million certificates every year. City & Guilds is recognised and respected by employers across the world as a sign of quality and exceptional training.

City & Guilds Group

The City & Guilds Group operates from three major hubs: London (servicing Europe, the Caribbean and Americas), Johannesburg (servicing Africa), and Singapore (servicing Asia, Australia and New Zealand). The Group also includes the Institute of Leadership & Management (management and leadership qualifications), City & Guilds Land Based Services (land-based qualifications), the Centre for Skills Development (CSD works to improve the policy and practice of vocational education and training worldwide) and Learning Assistant (an online e-portfolio).

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