National Occupational Skill Standard (NOSS)

Occupational Title : Furniture Maker

Level: 3

Sector : Construction

Sub - Sector : Wood work

NOSS ID/NSCO ID :

ISCO NO :



Council for Technical Education and Vocational Training

NATIONAL SKILL TESTING BOARD

Madhyapur Thimi-17, Sanothimi, Bhaktapur, Nepal

Developed: 02-04-2023 (19-12-2079)



The Occupational Skill Standard Developed By:

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2.	Mr. Sanukaji Sthapit	Member
3.	Mr. Sahadev Sthapit	Member
4.	Mr. Babukaji Bajracharya	Member
5.	Mr. Dobar Lal Shilakar	Member
6.	Mr. Chhatra Bir Bajracharya	Member-Secretary

Approve by the tripartite National Skill Testing Board.

1989





The National Occupational Skill Standard Developed by:

No	Name	Designation	Organization
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Recommended by Construction Technical Sub Committee: 02 April 2023 (19 Chaitra 2079)





1	Occupational Title: Furniture Maker Level: 3					
2	Job Description: Furniture Maker, L-3, prepares design for wooden furniture products, fabricates wooden furniture products, performs finishing of wooden furniture products, repairs, restores and modifies wooden furniture products.					
	UNITS OF COMPETENCY:					
	1. Prepare design for wooden furniture products					
	2. Fabricate wooden furniture products					
	3. Perform finishing of wooden furniture products					
	4. Repair and modify wooden furniture products					
	5. Perform communication					
	6. Develop professionalism					
	*Note: Units 5 and 6 are not for testing purpose.					
4	Qualifying Notes/Prerequisites:					
	Physical Requirements: Sound health					
	Entry Requirements: As per NSTB rules Additional Information:					
	Assessment Types: Performance test only.					
	Assessment Duration: 20 to 24 Hours (Full competency)					
	Recommended Group Size: 6 to 8 Candidates					





5	Unit No:1 Unit Title: Prepare design for wooden furniture pr	oducts	Unit code:		
	Elements of competency		Performance standards		
		1.1.1	1 Personal Protective Equipment (PPE) used in accordance with task requirement.		
	1.1 Prepare tools, equipment and materials	1.1.2	2 Tools and equipment prepared as per task requirement.		
		1.1.3	3 Tools, equipment and materials arranged in workplace allowing enough space to work.		
		1.2.1	1 Furniture product requirement collected from clients.		
		1.2.2	2 Sketch of furniture product prepared as per client's requirement.		
	1.2 Prepare sketch and drawing	1.2.3	3 Different views of furniture product prepared as per client's requirement.		
		1.2.4	4 Prepared design shared with clients and finalized based on client's feedback.		
		1.3.1	1 Required <i>materials</i> type and quantity listed as per drawing.		
		1.3.2	2 Materials cost estimated based on market price.		
		1.3.3	3 Time and labour required to manufacture furniture product determined and labour cost		
	1.3 Prepare cost estimate		estimated based on job.		
		1.3.4	4 Total cost of furniture product calculated based on estimates.		
		1.3.5	5 Total cost documented according to workplace format and informed to clients.		
		1.4.1	1 Layout drawn on the materials in full size (1:1) as per drawing.		
		1.4.2	2 Materials cut to required shape.		
	1.4 Prepare template	1.4.3	3 Template prepared and finished as per drawing.		
		1.4.4	4 Template coated with <i>preservative materials</i> .		
		1.4.5	5 Template labelled and stored in designated area.		





1.5 Clean workplace	1.	 1.5.1 Unused materials collected and stored in designated area. 1.5.2 Tools and equipment cleaned, checked for damage and stored in designated area. 1.5.3 Workplace cleaned neatly and waste disposed as per <i>3R's principle</i> at designated area. 				
Task Performance Requirements (Tools, Equipment and Materials):						
	•	marker, compass, drawing table, camera, highlighter, notebook, measuring tape, power tools,				
		, sliding T bevel, spoke shave, chisel, mallet, sharpening stone, file, clamp, cloth, dust collector,				
dust pan, dust bin, broom, brush, air blower, materials, first aid kit and personal protective equipment.						
afety and Hygiene (Occ	al Health and Safety):):				
 Use personal pro 	quipment.					
 Safe handling of 	s, tools and equipment	nt.				
 Hazards involved 	ening tools.					
 Isolate electric ar 	azards (tripping, electri	tric shock, burns).				
 Safe handling of 						





	Required Knowledge							
8	Technical Knowledge	Applied Calculation	Graphical Information					
	 Tools and equipment Uses Safe handling Furniture types and furniture parts Different types of furniture design Current market trends Furniture specification Furniture sketch and drawing Multiview and pictorial drawing Furniture design software Furniture materials and finishes Costing and estimation Template making process Record keeping Waste management Occupational health and safety (OHS) Use of first aid kit 	Convert metric unit to imperial and vice versa Calculate material cost Calculate labour cost Calculate actual cost	Read and interpret drawing and specification Read and interpret manufacturer's instruction					





9	Assessment of Competency								
	Unit: 1								
	Unit Title: Prepare des	Unit Title: Prepare design for wooden furniture products							
			Candidate Details	Assessors Detail					
	Candidate's Name:			Assessors'	Name		ID/License No:		
	Registration Number:			1.					
	Symbol No:			2.					
	Test Centre:		Test Date:	3.					
Ele	Element of competency		Performance Standards		Standard Not Met	Evidence Type	Comments		
	Prepare tools, equipment and materials	1.1.1	Personal Protective Equipment (PPE) used in accordance						
1.1			with task requirement.						
1.1		1.1.2	Tools and equipment prepared as per task requirement.						
		1.1.3	Tools, equipment and materials arranged in workplace						
			allowing enough space to work.						
		1.2.1	Furniture product requirement collected from clients.						
		1.2.2	Sketch of furniture product prepared as per client's						
1.2	Prepare sketch and		requirement.						
	drawing	1.2.3	Different views of furniture product prepared as per						
			client's requirement.						
		1.2.4	Prepared design shared with clients and finalized based on						



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			client's feedback.		
		1.3.1	Required <i>materials</i> type and quantity listed as per		
			drawing.		
		1.3.2	Materials cost estimated based on market price.		
		1.3.3	Time and labour required to manufacture furniture		
			product determined and labour cost estimated based on		
1.3	Prepare cost estimate		job.		
		1.3.4	Total cost of furniture product calculated based on		
			estimates.		
		1.3.5	Total cost documented according to workplace format and		
			informed to clients.		
		1.4.1	Layout drawn on the materials in full size (1:1) as per		
			drawing.		
		1.4.2	Materials cut to required shape.		
1.4	Prepare template	1.4.3	Template prepared and finished as per drawing.		
		1.4.4	Template coated with <i>preservative materials</i> .		
		1.4.5	Template labelled and stored in designated area.		
		1.5.1	Unused materials collected and stored in designated area.		
		1.5.2	Tools and equipment cleaned, checked for damage and		
1.5	Clean workplace		stored in designated area.		
		1.5.3	Workplace cleaned neatly and waste disposed as per 3R's		
$ \wedge$					CTEV



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	pi	rinciple at designated			
WT - Written Test	OQ - Oral Question	PT- Practical Test	DO – Direct Observation	SR - Supervisor's report	SN –Simulation
RP - Role Play	PG –Photographs	VD - Video	CT – Certificates	TS – Testimonials (Reward)	PP – Product Produced
CS – Case Study					





Range Statement

Variable	Range
Personal Protective Equipment	 May include but not limited to: Helmet Hair net Apron/Safety Jacket Goggles Gloves Safety shoes Mask
Furniture product	 Ear plug May include but not limited to: Table: Dressing table, console table, round/oval table, study table with bookcase, drop-leaf table Cabinet: TV unit, shoe rack, kitchen cabinet, bar cabinet, filling cabinet Wardrobe with sliding/rabbet shutter Bed: Hydraulic bed, bunk bed Chair: Upholstery chair, rocking chair, bar chair, dressing chair, folding chair Chest of drawer
Different views	May include but not limited to: Top view Front view Side view Sectional view Isometric/Oblique view





Materials	May include but not limited to: Wood Ply wood Boards Furniture finishes Paints Polish Laminating materials Lipping/edge bindings Finishing materials
	 Finishing materials Hardware, fittings and accessories Glasses and mirrors
Preservative materials	May include but not limited to:
	ShellacVarnishLacquer
3R's principle	May include but not limited to:
	ReduceReuseRecycle





5	Unit No: 2 Unit Title: Fabricate wooden furniture products	Unit code:
	Elements of competency	Performance standards
	2.1 Prepare tools, equipment and materials	 2.1.1 Personal Protective Equipment (PPE) used in accordance with task requirement. 2.1.2 Tools and equipment checked and prepared as per the task requirement. 2.1.3 Materials collected and checked for defects. 2.1.4 Tools, equipment and materials are arranged in workplace allowing enough space to work.
	2.2 Prepare furniture parts	 2.2.1 <i>Quality workpiece</i> measured and cut to required angle and dimension. 2.2.2 Workpiece planned along the grain maintaining straightness, level and right angle. 2.2.3 <i>Joints</i> prepared on workpiece according to drawing. 2.2.4 Trail fitting performed and joints corrected to fit well and flushed. 2.2.5 Prepared <i>furniture parts</i> labelled and stacked in designated area.
	2.3 Assemble furniture parts	 2.3.1 Prepared furniture parts arranged for assembling. 2.3.2 Furniture parts fitted and fastened in assembly sequence without damage. 2.3.3 Assembled <i>furniture product</i> checked for compliance with drawing and specification. 2.3.4 Twist, distortion, fittings and level adjusted as per requirement.
	2.4 Install laminating materials	 2.4.1 Laminating surface prepared using surface preparation technique. 2.4.2 Laminating materials cut to required dimension matching pattern and texture. 2.4.3 Adhesives evenly applied to laminating surface and the back of laminating materials. 2.4.4 Laminating materials pasted on required surface in matching pattern and texture. 2.4.5 Laminated surface masked tightly and masking tape removed once fully bonded.
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	2.4.6 Laminated surface checked for peeling or air bubble and refixed.
	2.4.7 Excess laminate surface trimmed from edges in line and level without damage.
	2.5.1 Furniture hardware, fastener and fittings selected as per drawing and specification and
	checked for smooth operation and damage.
	2.5.2 Housing prepared as per furniture hardware on furniture product in designated place.
2.5 Install furniture accessories	2.5.3 Surface drilled/bored as per furniture hardware.
	2.5.4 Furniture hardware fitted and fastened as per manufacturer's instruction.
	2.5.5 Functionality of furniture hardware and fittings checked and adjusted.
	2.6.1 Surface prepared for mounting glasses or mirrors.
	2.6.2 Fixing and joining materials prepared based on types of materials to be joined and
2.6 Install glasses and mirrors	surface to be covered with glasses or mirrors.
	2.6.3 Glasses or mirrors fixed in line and level using <i>appropriate fixing method</i> .
	2.6.4 Installed glasses and mirrors inspected for alignment and adjusted.
	2.7.1 Unused materials collected and stored in designated area.
	2.7.2 Surplus adhesives on laminates wiped.
2.7 Clean workplace	2.7.3 Tools and equipment cleaned and stored in designated area.
	2.7.4 Workplace cleaned neatly and waste disposed as per <i>3R's principle</i> at designated area.

Task Performance Requirements (Tools, Equipment and Materials):

• Measuring tape, marking gauge, ruler, pencil, pen, paper, sharpener, eraser, marker, combination square, sliding T bevel, try square, awl, saw, scraper, rasp, planer, mallet, hammer, nail punch, screwdriver, pincer, plier, chisel, wrench, phase tester, sharpening stone, file, saw set,



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clamp, wedge, nail, screw, drill machine, drill bit set, sanding machine, power tools, masking tape, adhesive, laminate/mica, veneer, furniture hardware, furniture fittings, wire mesh, mirror, glass, listic, dust collector, dust pan, dust bin, broom, brush, air blower, workpiece, first aid kit and personal protective equipment.

7 Safety and Hygiene (Occupational Health and Safety):

- Use personal protective equipment.
- Safe handling of materials, tools and equipment.
- Hazards involved in handling cutting tools.
- Isolate electric and fire hazards (tripping, electric shock, burns).
- Hazards involved in lifting tools, equipment and materials.
- Safe handling of debris.





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		Required Knowled	dge	
8	Technical Knowledge	А	pplied Calculation	Graphical Information
	 Tools and equipment Hand tools and power tools Uses Safe handling Repair and maintenance Wood types, uses and its properties Market form of timber Defects in timber Market price and furniture trend Wooden furniture Introduction Types Material types and preparation technique (Lay Cutting, Clamping, Planning and gauging technical types of joints and their uses Furniture parts Assembly sequence and fitting technique Quality of materials and furniture product Finishing works Measurement system	out,	nvert metric unit to imperial d vice versa	Read and interpret drawing and specification Read and interpret manufacturer's instruction
	Preparation and fixing techniques of furniture accessor NOSS ID # Developed Date: 2023-03-12	Revision Number ##	Revised Date: dd/mm	n/yy Page:16



Preparation and fixing techniques of glasses and mirrors	
Record keeping	
Waste management	
 Occupational health and safety (OHS) 	
Use of first aid kit	





9		Assessment of Competency					
	Unit: 2	Unit: 2					
	Unit Title: Fabricate w	ooden	furniture products				
			Candidate Details		As	sessors De	tail
	Candidate's Name:			Assessors'	Name		ID/License No:
	Registration Number:			1.			
	Symbol No:			2.			
	Test Centre:		Test Date:	3.			
Ele	Element of competency Performance Sta		Performance Standards	Standard Met	Standard Not Met	Evidence Type	Comments
	Prepare tools, equipment and materials	2.1.1	Personal Protective Equipment (PPE) used in accordance				
			with task requirement.				
2.1		2.1.2	Tools and equipment checked and prepared as per the				
2.1			task requirement.				
		2.1.3	Materials collected and checked for <i>defects</i> .				
		2.1.4	Tools, equipment and materials are arranged in workplace				
			allowing enough space to work.				
		2.2.1	Quality workpiece measured and cut to required angle and				
2.2	Prepare furniture		dimension.				
	parts	2.2.2	Workpiece planned along the grain maintaining				
			straightness, level and right angle.				





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	2	2.2.3	Joints prepared on workpiece according to drawing.			
	2	2.2.4	Trail fitting performed and joints corrected to fit well and			
			flushed.			
	2	2.2.5	Prepared <i>furniture parts</i> labelled and stacked in			
			designated area.			
	2	2.3.1	Prepared furniture parts arranged for assembling.			
	2	2.3.2	Furniture parts fitted and fastened in assembly sequence			
			without damage.			
	nble furniture 2	2.3.3	Assembled <i>furniture product</i> checked for compliance with			
parts			drawing and specification.			
	2	2.3.4	Twist, distortion, fittings and level adjusted as per			
			requirement.			
	2	2.4.1	Laminating surface prepared using surface preparation			
			technique.			
	2	2.4.2	Laminating materials cut to required dimension matching			
			pattern and texture.			
2.4 Instal matei	I laminating 2	2.4.3	Adhesives evenly applied to laminating surface and the			
matei	ridis		back of laminating materials.			
	2	2.4.4	Laminating materials pasted on required surface in			
			matching pattern and texture.			
	2	2.4.5	Laminated surface masked tightly and masking tape			



2.6	Install glasses and mirrors		materials to be joined and surface to be covered with glasses or mirrors.			
		2.6.1	Surface prepared for mounting glasses or mirrors. Fixing and joining materials prepared based on types of			
		264	and adjusted.			_
		2.5.5	Functionality of furniture hardware and fittings checked			
			manufacturer's instruction.			
			Furniture hardware fitted and fastened as per			
2.5	Install furniture accessories	2.5.3	Surface drilled/bored as per furniture hardware.			
		2.5.2	Housing prepared as per furniture hardware on furniture product in designated place.			
		2.5.2	operation and damage.			
			drawing and specification and checked for smooth			
		2.5.1	Furniture hardware, fastener and fittings selected as per			
			level without damage.			
		2.4.7	Excess laminate surface trimmed from edges in line and			
			refixed.			
		2.4.6	Laminated surface checked for peeling or air bubble and			
			removed once fully bonded.			



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		2.6.4	Installed glasses and mirrors inspected for alignment and			
			adjusted.			
		2.7.1	Unused materials collected and stored in designated area.			
		2.7.2	Surplus adhesives on laminates wiped.			
		2.7.3	Tools and equipment cleaned and stored in designated			
2.7	Clean workplace		area.			
		2.7.4	Workplace cleaned neatly and waste disposed as per 3R's			
			principle at designated area.			

WT- Written Test

OQ- Oral Question

PT- Practical Test

DO – Direct Observation

SR- Supervisor's report

SN–Simulation

RP- Role Play

PG –Photographs

VD- Video

CT – Certificates

TS – Testimonials (Reward)

PP – Product Produced

CS – Case Study





Range Statement

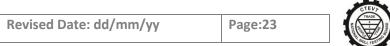
Variable	Range
Personal protective equipment	May include but not limited to:
	Hair net
	• Apron
	• Goggles
	• Gloves
	Safety shoes
	 Mask
	Ear plug
Tools and equipment	May include but not limited to:
	Power tools
	Measuring tools
	Marking tools
	Cutting tools
	 Shaving tools
	Clamping tools
	Shaping tools
	Drilling and boring tools
	Striking and driving tools
Defects	May include but not limited to:
	• Cracks
	• Holes
	• Dents
	• Voids





	 Cavities Scratches Splits Undulating portion/surface Joints Warping
Quality	 May include but not limited to: Straight Knotless Rotten free Crack free Seasoned Sap free wood Scatter less (Peel) Free from shrinkage and swelling
Workpiece	May include but not limited to: Wood/Timber Ply wood Block board Veneer Fiber board (MDF, HDF) Particle board
Joints	 May include but not limited to: Butt joint Lap joint Dado joint Tenon and mortise joint





	 Tongue and groove joint Miter joint Dove tail joint Dowel joint Finger and box joint Rabbet joint
Furniture components and parts	May include but not limited to: Leg Toe kick Rail Brace Frame Top Support Shelves Shutter Panel Trestle Stretcher Back Bottom
Furniture products	 May include but not limited to: Table: Dressing table, console table, round/oval table, study table with bookcase, drop-leaf table Cabinet: TV unit, shoe rack, kitchen cabinet, bar cabinet, filling cabinet Wardrobe with sliding/rabbet shutter Bed: Hydraulic bed, bunk bed Chair: Upholstery chair, rocking chair, bar chair, dressing chair, folding chair



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	Chest of drawer
Surface preparation technique	May include but not limited to: Nail punching Heating/ironing Puttying Sanding Planning Filling Cleaning
Laminating materials	May include but not limited to: • Mica/Laminate • Veneer
Furniture hardware, fastener and fittings	May include but not limited to: Hinges Lock Handle Tower bolt Channel Magnet catcher Hanging rod Key hole cover Dowel Connector Hydraulic bed lift Drop leaf support Nut bolt



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Appropriate fixing method	 May include but not limited to: By applying adhesive By using listic By screwing By using magnetic catcher
3R's principle	May include but not limited to: Reduce Reuse Recycle





5	Unit No: 3 Unit Title: Perform finishing of wooden furniture	produc	cts Unit code:
	Elements of competency		Performance standards
	3.1 Prepare tools, equipment and materials	3.1.1	Personal Protective Equipment (PPE) used in accordance with task requirement. Tools, equipment and materials selected as per task requirement.
		3.1.3	
		3.2.1	Lipping selected as per color and texture of laminate materials.
		3.2.2	Lipping cut to size without damaging the edge.
		3.2.3	Adhesives evenly applied to laminating surface and the back of lipping.
	3.2 Perform edge binding	3.2.4	Lipping pasted at edge of furniture in matching patterns.
		3.2.5	Edges of the lipping masked tightly and removed masking tape once fully bonded.
		3.2.6	Edges of lipping checked for peeling and refixed.
		3.2.7	Zedges trimmed in line and level without damage.
		3.3.1	Surface preparing technique applied to create smooth and even surface for painting.
		3.3.2	Surface not to be paint covered with <i>masking materials</i> .
		3.3.3	Undercoat applied uniformly to achieve required level of finish.
	3.3 Paint furniture product	3.3.4	Entire surface sanded evenly and cleaned thoroughly.
		3.3.5	Paint applied evenly and uniformly on furniture products with no visible brush stokes,
			bubbles and color variation.
		3.3.6	Stains of paint wiped from unwanted surface.
		3.4.1	Surface preparing technique applied to create smooth and even surface for polishing.
\wedge	3.4 Polish furniture product	3.4.2	Surface not to be polish covered with masking materials.



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	3.4.3 Filler applied uniformly to achieve required level of finish.
	3.4.4 Entire surface sanded evenly and cleaned thoroughly.
	3.4.1 <i>Polish</i> applied uniformly to achieve required level of opacity, finish and sheen.
	3.4.2 Stains of polish wiped from unwanted surface.
	3.5.1 Unused materials collected and stored in designated area.
3.5 Clean workplace	3.5.2 Tools and equipment cleaned and stored in designated area.
	3.5.3 Workplace neatly cleaned and waste disposed as per <i>3R's principle</i> at designated area.
6 Task Performance Requirements (Tools, Equipme	

Measuring tape, ruler, pencil, pen, paper, sharpener, eraser, scraper, marker, file, nail, nail punch, hammer, chisel, steel wool, chalk powder, color powder, shellac, lacquer, bowl, filler, wood primer, wood dust, enamel, color stain, sealer, varnish, adhesive, masking tape, drop cloth, putty knife, paint brush, roller, spray gun, water, cotton cloth, jute rag, sand paper, sanding machine, iron, scissors, turpentine oil, lipping materials, kerosene, spirit, thinner, dust collector, dust pan, dust bin, broom, brush, air blower, first aid kit and personal protective equipment.

Safety and Hygiene (Occupational Health and Safety): 7

- Use personal protective equipment.
- Safe handling of materials, tools and equipment.
- Hazards involved in handling tools and equipment.
- Hazards involved in toxic chemicals and wood.
- Isolate electric and fire hazards (tripping, electric shock, burns).
- Hazards involved in lifting tools, equipment and materials.
- Safe handling of debris.





	Required Knowledge					
8	Technical Knowledge	Applied Calculation	Graphical Information			
	 Tools, equipment and materials Types Uses Repair and maintenance Safe handling Finishing materials Introduction Types Quality Lipping Introduction Types Use Material and edge preparation Adhesive Introduction Types Use Measurement system Condition of wooden surface Surface preparation Putty and filler Introduction Types and components Mixing technique Application Wood primer 	Convert metric unit to imperial and vice versa	Read and interpret manufacturer's instruction Read and interpret drawing and specification Read and interpret drawing and specification			
-	 Introduction 		CIEVA			





0	Types	
0	Thinning materials	
0	Application	
Paint		
0	Introduction	
0	Types	
0	Materials preparation	
0	Painting technique	
0	Staining technique	
 Polish 		
0	Introduction	
0	Types	
0	Materials preparation	
0	Polishing technique	
0	Staining technique	
 Stain of 	of paint and polish removing technique	
 Waste 	e management	
 Occup 	pational health and safety (OHS)	
 Use of 	f first aid kit	





9	Assessment of Competency							
	Unit: 3							
	Unit Title: Perform fini	ishing c	f wooden furniture products					
			Candidate Details	Assessors Detail				
	Candidate's Name:			Assessors'	Name		ID/License No:	
	Registration Number:			1.				
	Symbol No:			2.				
	Test Centre:		Test Date:	3.				
Ele	ment of competency		Performance Standards	Standard Met	Standard Not Met	Evidence Type	Comments	
	Prepare tools, equipment and materials	3.1.1	Personal Protective Equipment (PPE) used in accordance					
			with task requirement.					
3.1		3.1.2	Tools, equipment and materials selected as per task					
			requirement.					
		3.1.3	Working condition of tools and equipment checked and					
			fault tagged.					
		3.2.1	Lipping selected as per color and texture of laminate					
			materials.					
3.2	Perform edge binding	3.2.2	Lipping cut to size without damaging the edge.					
	_	3.2.3	Adhesives evenly applied to laminating surface and the					
			back of lipping.					
		1		ı				





		3.2.4 Lipping pasted at edge of furniture in matching patterns.	
		3.2.5 Edges of the lipping masked tightly and removed masking	
		tape once fully bonded.	
		3.2.6 Edges of lipping checked for peeling and refixed.	
		3.2.7 Edges trimmed in line and level without damage.	
		3.3.1 Surface preparing technique applied to create smooth and	
		even surface for painting.	
		3.3.2 Surface not to be paint covered with <i>masking materials</i> .	
		3.3.3 <i>Undercoat</i> applied uniformly to achieve required level of	
3.3	Paint furniture	finish.	
	product	3.3.4 Entire surface sanded evenly and cleaned thoroughly.	
		3.3.5 Paint applied evenly and uniformly on furniture products	
		with no visible brush stokes, bubbles and color variation.	
		3.3.6 Stains of paint wiped from unwanted surface.	
		3.4.1 Surface preparing technique applied to create smooth and	
		even surface for polishing.	
		3.4.2 Surface not to be polish covered with masking materials.	
3.4	Polish furniture	3.4.3 Filler applied uniformly to achieve required level of finish.	
	product	3.4.4 Entire surface sanded evenly and cleaned thoroughly.	
		3.4.3 <i>Polish</i> applied uniformly to achieve required level of	
		opacity, finish and sheen.	



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	3.4.4 Stains of polish wiped from unwanted surface.
	3.5.1 Unused materials collected and stored in designated area.
	3.5.2 Tools and equipment cleaned and stored in designated
3.5 Clean workplace	area.
	3.5.3 Workplace neatly cleaned and waste disposed as per <i>3R's</i>
	principle at designated area.

WT- Written Test

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Range Statement

Variable	Range
Personal protective equipment	May include but not limited to:
	Helmet
	Hair net
	• Apron
	 Goggles
	• Gloves
	 Safety shoes
	 Mask
	Ear plug
Lipping	May include but not limited to:
	• PVC
	 Wooden
	Mica/laminate
	• Veneer
Surface preparation technique	May include but not limited to:
	Nail punching
	Heating/ironing
	 Puttying
	• Sanding
	 Planning
	• Filling
	• Cleaning





Masking materials	May include but not limited to: Masking tape Masking paper Plastic sheet	
Undercoat	May include but not limited to: Primer Stain	
	• Filler	
Polish	May include but not limited to:	
	French polish	
	VarnishSealer	
	• Lacquer	
3R's principle	May include but not limited to:	
	• Reduce	
	• Reuse	
	• Recycle	





5	Unit No: 4 Unit Title: Repair and modify wooden furniture pr	oducts		Unit code:
	Elements of competency			Performance standards
		4.1.1	Furniture prod	ducts inspected visually for <i>defects</i> .
		4.1.2	Functionality	of furniture products checked.
	4.1 Assess damage in furniture products	4.1.3	Furniture defe	ects identified and recorded.
		4.1.4	Customer req	uirement noted and suggestion provided based on condition of furniture.
		4.1.5	Cost of repair	estimated and shared with clients.
		4.2.1	Personal Prot	ective Equipment (PPE) used in accordance with task requirement.
		4.2.2	Tools, equipm	ent and materials prepared as per type of damage.
		4.2.3	Damaged por	cion prepared based on furniture defects and client's requirement.
		4.2.4	Furniture defe	ects repaired by strengthening or replacing by maintaining originality.
	4.2 Repair furniture product	4.2.5	Furniture surf	ace prepared for painting and paint applied uniformly to achieve required
			color.	
		4.2.6	Furniture surf	ace prepared for polishing and polish applied uniformly to achieve
			required level	of opacity, finish and sheen.
		4.2.7	Refinished fur	niture checked for alignment, fitting, stability, paint and polish.
		4.3.1	Modification	details collected from clients.
		4.3.2	Surface prepa	red based on modification details.
	4.3 Modify furniture product	4.3.3	Design modifi	ed based on client's requirement.
		4.3.4	Laminating m	aterials pasted on required surface in matching pattern and texture.
^		4.3.5	Finishing mate	erials applied evenly and uniformly to achieve required level of opacity,



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		finish and sheen.		
		4.3.6 Modified furniture checked for alignment, fitting, stability, paint and polish.		
		4.4.1 Unused materials collected and stored in designated area.		
	4.4 Clean workplace	4.4.2 Tools and equipment cleaned and stored in designated area.		
		4.4.3 Workplace neatly cleaned and waste disposed as per <i>3R's principle</i> at designated area.		
6	Task Performance Requirements (Tools, Equipmen	t and Materials):		
	• Ruler, pencil, pen, paper, sharpener, eraser, measuring tape, scraper, file, nail punch, marking gauge, combination square, try square, saw, planer, mallet, hammer, sharpening stone, nail, screw, chisel, screw driver, plier, sand paper, steel wool, furniture accessor			

laminating materials, laminate cutter, chalk powder, color powder, shellac, bowl, wood primer, wood dust, enamel, color stain, sealer,

varnish, masking tape, adhesive, drill machine, drill bit set, putty knife, paint brush, roller, spray gun, water, cotton cloth, jute rag, sanding

machine, iron, heat gun, scissors, turpentine oil, kerosene, spirit, thinner, dust collector, dust pan, dust bin, broom, brush, air blower, first aid

7 Safety and Hygiene (Occupational Health and Safety):

kit and personal protective equipment.

- Use personal protective equipment.
- Safe handling of materials, tools and equipment.
- Hazards involved in handling tools and equipment.
- Hazards involved in toxic chemicals and wood.
- Isolate electric and fire hazards (tripping, electric shock, burns).
- Hazards involved in lifting tools, equipment and materials.
- Safe handling of debris.





Applied Calculation	Graphical Information
Convert metric unit to imperial and vice versa Calculate cost of repair and modification	Read and interpret manufacturer's instruction
	and vice versa Calculate cost of repair and





9	Assessment of Competency									
	Unit: 4									
	Unit Title: Repair and	Unit Title: Repair and modify wooden furniture products								
			Candidate Details	Assessors Detail						
	Candidate's Name:				Name	ID/License No:				
	Registration Number:	Registration Number:				1.				
	Symbol No:	Symbol No:				2.				
	Test Centre: Test Date: 3.									
Element of competency			Performance Standards	Standard Met	Standard Not Met	Evidence Type	Comments			
	Assess damage in furniture products	4.1.1	Furniture products inspected visually for <i>defects</i> .							
		4.1.2	Functionality of furniture products checked.							
		4.1.3	Furniture defects identified and recorded.							
		4.1.4	Customer requirement noted and suggestion provided							
			based on condition of furniture.							
		4.1.5	Cost of repair estimated and shared with clients.							
	Repair furniture product	4.2.1	Personal Protective Equipment (PPE) used in accordance							
			with task requirement.							
4.2		4.2.2	Tools, equipment and materials prepared as per type of							
			damage.							
		4.2.3	Damaged portion prepared based on furniture defects and							





			client's requirement.		
		4.2.4	Furniture defects repaired by strengthening or replacing by		
			maintaining originality.		
		4.2.5	Furniture surface prepared for painting and paint applied		
			uniformly to achieve required color.		
		4.2.6	Furniture surface prepared for polishing and polish applied		
			uniformly to achieve required level of opacity, finish and		
			sheen.		
		4.2.7	Refinished furniture checked for alignment, fitting,		
			stability, paint and polish.		
		4.3.1	Modification details collected from clients.		
		4.3.2	Surface prepared based on modification details.		
		4.3.3	Design modified based on client's requirement.		
		4.3.4	Laminating materials pasted on required surface in		
4.3	Modify furniture product		matching pattern and texture.		
	product	4.3.5	Finishing materials applied evenly and uniformly to achieve		
			required level of opacity, finish and sheen.		
		4.3.6	Modified furniture checked for alignment, fitting, stability,		
			paint and polish.		
	Clean workplace	4.4.1	Unused materials collected and stored in designated area.		
4.4		4.4.2	Tools and equipment cleaned and stored in designated		



		area.		
4	4.3.1	Workplace neatly cleaned and waste disposed as per 3R's		
		<i>principle</i> at designated area.		

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Revision Number ##

Range Statement

Variable	Range
Defects	 May include but not limited to: Cracks, patches and scratches Twist/warp Joints problems Structural damage
	Problems with furniture accessoriesFading/discoloration
Personal Protective Equipment	 May include but not limited to: Helmet Hair net Apron/Safety Jacket Goggles Gloves Safety shoes Mask Ear plug
Modification details	 May include but not limited to: Adding new parts and features Changing style and design Changing laminating materials Changing finishing materials





3R's principle	May include but not limited to:
	• Reduce
	• Reuse
	• Recycle



