

CURRICULUM FOR WOOD CRAFTSMANSHIP

1-YEAR
(Diploma course)

National Vocational & Technical Training Commission, Islamabad (February, 2012)



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TRAINING AIMS & OBJECTIVES

The aim of this course is to prepare students as effective Wood Craftsman.

The major Objectives of this course are to:

- Equip trainees with correct and efficient use of related tools, equipment & Machinery
- Capable of understanding applicable safety rules
- Become well versed with the related techniques and procedures as per industry demand
- Enable the trainees to meet the job market demands

CURRICULUM SALIENT POINTS

Entry Level	Middle (Age: 15 – 22 Years)
Total Duration of Course	1-Year (2 Semester) (2 Months Internship with any wood working unit)
Total Teaching Units	1600(800 Per Semester) 40 period per week
Training Methodology	Practical 80% Theory 20%
Instructional Media	Urdu
Scholarship	Rs. 4,000/- Per Month with the provision of hostel & transportation, if required.

SKILL PROFICIENCY DETAILS

After completion of the course the trainee must be able to: -

1. Observe all safety precautions personal and equipment
2. Interpret simple sketches and scale drawings
3. Use and maintenance of common wood working hand tools, measuring, marking, sawing, planning tools and chisels
4. Sharpening and setting of various types of hand saws, planers, Machine and Tools
5. Identify local timber in common use and be able to distinguish good and defective timber
6. Measure, cut and place timber to the given size
7. Utilize screws, nails and hardware
8. Work according to sketches or instructions

KNOWLEDGE PROFICIENCY DETAILS

After completion of the course the trainee would have gained knowledge about: -

1. Safety precautions applicable to power wood working tools & machines.
2. Good housekeeping, care and maintenance of woodworking tools & equipment.
3. Reading and interpreting simple plans, drawing & sketches.
4. Common types of timber, their description & uses.
5. Different types of screws, nails, commonly used in woodworking.
6. The types of saws, procedure of sharpening, settling.
7. Different methods of seasoning.
8. The preservation & storage of timber.
9. Preparation of synthetic glues and their uses.
10. Common types of wood working, joints, their preparation and uses..
11. The operation and uses of Band Saw, Jointer, Thicknesser, Spindle Molder, Belt Sander and Drill Press Machine
12. The types of hinges, fixtures and tower bolts commonly used in wood working

CURRICULUM DELIVERY STRUCTURE

1ST SEMESTER

	Course Delivery	Co Curricula Activities / Vacations	Test	Total
Week	1-20	21-25	26	26
	20	5	1	

2ND SEMESTER

	Course Delivery	Co Curricula Activities / Vacations	Final Test	Total
Week	1-20	21-25	26	26
	20	5	1	

SCHEME OF STUDIES

Wood Craftsmanship

(1-Year Course)

1ST SEMESTER

Sr. No	Subjects/ Main Topics	Theory Periods	Practical	Total Periods
1.	Introduction to Hand Tools	20	42	62
2.	Timber Theory	20	-	20
3.	Hard Ware	12	14	26
4.	Wood Craftsman Design & Drawing of Modern & Victorian Type Note: Deleted AutoCAD	28	122	150
5.	Preparation of joints / Jobs	-	442	442
6.	Arithmetic & Cost Calculation	40	-	40
7.	Functional English	20	20	40
8.	Work Ethics	-	20	20
	Total	140	660	800

2ND SEMESTER

Sr. No	Subjects / Main Topics	Theory Periods	Practical	Total Periods
1.	Finishing and Polishing	20	44	64
2.	Arithmetic and Basic Math	20	-	20
3.	Machines used in Wood Craftsmanship	62	-	62
4.	Product Deign with Modern & Victorian Type	11	213	224
5.	Preparation of different Jobs / Projects	-	370	370
6.	Functional English	20	20	40
7.	Work Ethics		20	20
	Total	133	667	800

DETAIL OF COURSE CONTENTS
Wood Craftsmanship 1-Year Course

1ST SEMESTER

SR. NO.	DETAIL OF TOPIC	Theory Periods	Practical
1.	Introduction to Hand Tools		
	1.1. Safety with wood working hand tools.	2	-
	1.1.1. Introduction to safety precaution for tools		-
	1.2. Work Bench	2	
	1.2.1. Introduction to work bench		
	1.2.1.1. Parts of work bench		
	1.2.1.2. Maintenance and use of work bench		
	1.2.2. Introduction to bench vice		
	1.2.2.1. Parts of bench vice		
	1.2.2.2. Maintenance and use of bench vice		
	1.3. Fixing & holding devices		-
	1.3.1. Introduction to		
	1.3.1.1. Sash or steel bar clamp	1	
	1.3.1.2. G and C clamp	1	
	1.3.1.3. Corner clamp	1	
	1.3.1.4. Improvised clamp	1	
	1.3.1.5. Uses and maintenance	2	
	1.4. Marking and laying out tools		
	1.4.1. Introduction and use of:		
	1.4.1.1. Steel rule	0.25	-
	1.4.1.2. Steel tape	0.25	
	1.4.1.3. Try square	0.25	-
	1.4.1.4. Miter square	0.25	-
	1.4.1.5. Sliding T-Bevel	0.25	-
	1.4.1.6. Marking gauge	0.25	-
	1.4.1.7. Mortise gauge	0.25	-
	1.4.1.8. Divider	0.25	-
	1.4.1.9. Spirit level	0.25	-
	1.4.1.10. Squaring rod	0.25	-
	1.5. Hand saws		-
	1.5.1. Introduction & uses of :		-
	1.5.1.1. Rip saw	0.5	
	1.5.1.2. Cross cut saw	0.5	
	1.5.1.3. Tenon saw	0.5	6
	1.5.1.4. Dovetail saw	0.5	
	1.5.1.5. Compass saw	0.5	
	1.5.1.6. Key hole saw	0.5	
	1.5.1.7. Miter saw	0.5	
	1.5.1.8. Coping saw and their	1	

	sharpening & setting		
1.6.	Hand Planes		
1.6.1.	Introduction and uses of:		
1.6.1.1.	Jack plane	1	
1.6.1.2.	Jointer plane	1	4
1.6.1.3.	Smoothing plane	1	
1.6.1.4.	Block plane	1	
1.6.1.5.	Rabbit plane	1	
1.6.1.6.	Circular plane	1	
1.6.1.7.	Spoke shave plane their adjustment and sharpening	2	
1.7.	Chisels & Gouges	-	
1.7.1.	Introduction and uses of:		
1.7.1.1.	Socket chisel	1	
1.7.1.2.	Firmer chisel	1	
1.7.1.3.	Tang butt chisel	1	2
1.7.1.4.	Mortise chisel	1	
1.7.1.5.	Gouges and their sharpening	2	
1.8.	Boring Tools	-	
1.8.1.	Introduction and uses of:		
1.8.1.1.	Twist bit	0.5	
1.8.1.2.	Double spur twist bit	0.5	
1.8.1.3.	Auger bit	0.5	2
1.8.1.4.	Center bit	0.5	
1.8.1.5.	Expensive bit	0.5	
1.8.1.6.	Gimlet or snail bit	0.5	
1.8.1.7.	Bradawl	0.5	
1.8.1.8.	Hand drill machine	0.5	
1.8.1.9.	Uses and maintenance / Sharpening	1.5	
1.9.	Wood working hammers		
1.9.1.	Introduction and uses of:		
1.9.1.1.	Claw hammer	1.5	2
1.9.1.2.	Mallet	1.5	
1.9.1.3.	Cross peen hammer	1.5	
1.10.	Pincer & screw drivers		
1.10.1.	Introduction and uses of:		-
1.10.1.1.	Philips head screw driver	1.5	
1.10.1.2.	Flat head screw driver	0.5	
1.10.1.3.	Pincer	0.5	
1.11.	Wood working files		
1.11.1.	Introduction and uses of:		
1.11.1.1.	Flat file	0.5	-
1.11.1.2.	Half round file	0.5	
1.11.1.3.	Round file	0.5	
1.11.1.4.	Triangle file	0.5	
1.11.1.5.	Rasp file	0.5	

			-
2.	Timber Theory		
	2.1. The vegetative structure of the tree		
	2.1.1. Parts of tree	1.5	-
	2.1.2. How to grow a tree	1.5	-
	2.2. Classification of trees		
	2.2.1. Endogens trees	1	-
	2.2.2. Exogens trees	1	-
	2.2.3. Broad leaf trees	1	-
	2.2.4. Conifers & evergreen trees	1	-
	2.3. Characteristics and structure of a tree		
	2.3.1. Characteristics of a tree	2	-
	2.3.2. Cross section of trunk	2	-
	2.3.3. The cells of tree	2	-
	2.4. Defects and abnormalities of wood		
	2.4.1. Natural defects:		
	2.4.1.1. Knots	1	-
	2.4.1.2. Variation in log form	1.5	-
	2.4.1.3. Excessive taper and spiral growth of tree	1.5	-
	2.4.2. Shakes		
	2.4.2.1. Heart or star shakes		
	2.4.2.2. Cup shakes		
	2.4.2.3. Ring shakes	1	-
		1	-
		1	-
3.	Hardware		
	3.1. Different kinds and sizes of nails, screws and their proper uses.		
	3.1.1. Nails.		
	3.1.1.1. Common Wire	1	
	3.1.1.2. Box Nails.		
	3.1.1.3. Casing Nails.		
	3.1.1.4. Brads or finishing nails.		-
	3.1.1.5. Tacks.		-
	3.1.1.6. Nail set		
	3.1.2. Screws.	1	-
	3.1.2.1. Flat Headed Screws.		
	3.1.2.2. Oval Headed Screws.		
	3.1.2.3. Round Headed Screws.		
	3.1.2.4. Round Headed Screws.		
	3.1.2.5. Philips Headed Screws.		
	3.1.2.6. Screw Hooks		-
	3.1.2.7. Rules for driving nails and screws.		
	3.1.2.8. Rules for Driving Nails.	1	
	3.1.2.9. Rules for Driving crews.		
	3.1.2.10. Usage and fitting of different kinds of hinges, locks and	1	

	catchers.		
3.1.3.	Hinges.		
3.1.3.1.	Butt Hinges.		
3.1.3.2.	Continuous or Piano hinges.		
3.1.3.3.	Folding table hinges.	1	
3.1.3.4.	Surface Hinges.	1	
3.1.3.5.	2 D Hinges.	1	
3.1.4.	Locks.	1	
3.1.4.1.	Mortise Locks	1	
3.1.4.2.	Screw on Lock.	1	
3.1.4.3.	Mortise Roll-Blind Lock or Sliding door lock.		-
3.1.4.4.	Mortise door lock		-
3.1.4.5.	Pad lock		-
3.1.5.	Catchers.		
3.1.5.1.	Magnetic Catcher		-
3.1.5.2.	Ball Catcher.	1	-
3.1.5.3.	Roller Catcher.		
3.1.5.4.	Spring Wedge Catcher		-
3.1.6.	Bend fittings, flap stay, tower bolt.		
3.1.6.1.	Bed Fitting.		
3.1.6.2.	Flap Stay.		
3.1.6.3.	Tower Bolts.	1	
3.1.6.4.	Door Bolts.	1	
3.1.6.5.	Al drop bolts.	1	
3.1.6.6.	End tower bolt	1	-
3.1.7.	Sliding tracks.	1	
3.1.7.1.	Sliding door tracks		
3.1.7.2.	Built in Roller.		
3.1.7.3.	Tracks and Glides.	1	
3.1.7.4.	Glass Door Sliding	1	
3.1.8.	Grooves.	1	
3.1.8.1.	Furniture and Fixture		
3.1.8.2.	Furniture casters.		
3.1.8.3.	Edging Profiles.	1	
3.1.8.4.	Shelves Supports.	1	
3.1.8.5.	Glass fitting.	1	
3.1.9.	Handles.	1	
3.1.9.1.	Knob Handles.		
3.1.9.2.	Hat and Coat Hooks.		
3.1.9.3.	Metal Handles.	1	-
		1	
		1	

	5.1.12. Key Mortise & Tenon Joint	-	36
6.	6.1. Arithmetic and Cost Calculation 6.1.1. Basic Skill with Natural Numbers 6.1.1.1. Addition and subtraction 6.1.1.2. Multiplication 6.1.1.3. Division 6.1.2. Conversion of measurement 6.1.2.1. Feet system to metric system. 6.1.2.2. Millimeters to inches conversion. 6.1.2.3. Pounds to kilograms conversion. 6.1.2.4. Gallons to liters conversion.	8 6 6 5 5 5 5	- - - - - - -
7.	Functional English	20	20
8.	Work Ethics	-	20

2ND SEMESTER

Sr. No.	Detail of Topics	Theory Periods	Practical
1.	1.1. Finishing and Polishing. 1.1.1. Preparing the surface. 1.1.1.1. How to prepare the wooden surface for paint and polish. 1.1.2. Abrasive Papers. 1.1.2.1. Glass Paper. 1.1.2.2. Garnet Paper. 1.1.2.3. Aluminum oxide paper. 1.1.2.4. Silicon Carbide Paper. 1.1.2.5. Grading of Sand Papers. 1.1.3. Bleaching. 1.1.3.1. Introduction. 1.1.3.2. Contents. 1.1.3.3. Safety 1.1.4. Staining. 1.1.4.1. Introduction. 1.1.4.2. Contents.	2 - 1.5 1.5 1.5 1.5 1.5 1 1.5 1 1 1.5	2 - - - - - - 2 2 -

	1.1.4.3.Application.	1.5	-
	1.1.4.4.Water Stains.	1.5	-
	1.1.4.5.Spirit Stains.	1.5	-
	1.1.4.6.Oil Stains.	1.5	-
	1.1.4.7.Acid Stains.	1.5	-
	1.1.5. Spirit Polish.	-	-
	1.1.5.1.Introduction.	1	2
	1.1.5.2.Method of Preparation.	1.5	3
	1.1.5.3.Aplication.	1	-
	1.1.6. Lacquer Polish	-	-
	1.1.6.1.Introduction.	1	2
	1.1.5.2.Preparation.	1.5	-
	1.1.5.3.Application.	1	2
	1.1.7. Wax Polish.		
	1.1.7.1.Introduction	1	-
	1.1.7.2.Paste Polish	1	-
	1.1.7.3.Wax Stick.	1	-
	1.1.7.4..Application.	1	-
	1.2. Varnish and Paint.		
	1.2.1. Paint.		
	1.2.1.1. Introduction.	1	2
	1.2.1.2. Application.	2	-
	1.2.2. Varnish		
	1.2.2.1. Introduction	1	2
	1.2.2.2. Application	2	-
	1.3. Application methods for Paint and Polish.		
	1.3.1. By Brush	2	-
	1.3.2. By Spray Gun	2	-
2.	Arithmetic & Cost Calculation		
	2.1. Use of % (Percentage) in cost calculation.		
	2.1.1. Meaning of percentage.	1	-
	2.1.2. Changing numbers to percentage.	1	-
	2.1.3. Changing percentage to decimal.	1	-
	2.1.4. Finding the rate.	1	-
	2.1.5. The base.	1	-
	2.1.6. The percentage.	1	-
	2.1.7. Practice of solving different problems.	3	-
	2.2. Surface areas of Basic Geometry.		
	2.2.1. Square	1	-
	2.2.2. Rectangle.	1	-
	2.2.3. Trapezium.	1	-
	2.2.4. Triangle.	1	-
	2.2.5. Circle.	1	-

	2.2.6. Practice of solving different problems.	3	-
	2.3. Calculation of volume.		
	2.3.1. Volume and units of volume.	4	-
	2.3.2. Volume of logs.	4	-
	2.3.3. Volume of lumber.	4	-
	2.3.4. Volume of timber.	4	-
	2.3.5. Volume of furniture and their estimate.	4	-
	2.3.6. Practice of solving different problems.	3	-
3.	3.1. Wood Working Machines used in Wood Craftsmanship		
	3.1.1. Band Saw	2	-
	3.1.1.1. Main Parts.	1	-
	3.1.1.2. Blades of Band Saw	2	-
	3.1.1.3. Working Operation.	1	-
	3.1.1.4. Straight Sawing.	1	-
	3.1.1.5. Straight free hand sawing.	2	-
	3.1.1.6. Safety Rules.		
	3.1.2. Jointer Plane	2	-
	3.1.2.1. Main Parts.	2	-
	3.1.2.2. Working Operation.	1	-
	3.1.2.3. Planning Surface	2	-
	3.1.2.4. Jointing Edge.	2	-
	3.1.2.5. Safety Rules.		
	3.1.3. Thicknesser Rules of Surfacers Plane.	2	-
	3.1.3.1. Parts of Surfacers	2	-
	3.1.3.2. Working Operation	2	-
	3.1.3.3. Safety Rules.		
	3.1.4. Shaper or spindle Molder	2	-
	3.1.4.1. Main Parts.	2	-
	3.1.4.2. Working Operation.	2	-
	3.1.4.3. Operations performed on spindle molder	2	-
	3.1.4.4. Safety Rules.		
	3.1.5. Circular Saw	2	-
	3.1.5.1. Main parts.	2	-
	3.1.5.2. Blades.	2	-
	3.1.5.3. Cross cutting.	2	-
	3.1.5.4. Ripping.	2	-
	3.1.5.5. Safety Rules.		
4	Product Design with Computer		
	4.1 Different jobs and Projects.		
	4.1.1 Lapped Dovetail Joint.	1/2	8

4.1.2	Dowel joint.	1/2	5.
4.1.3	Slip Mortise and Tenon Joint.	1/2	5.
4.1.4	Hanger	-	4
4.1.5	Cross bar Joint Box.	-	4
4.1.6	Mallet.	-	3
4.1.7	Box with angle joint.	1/2	5
4.1.8	Wooden Arts	1	29
4.2	Basic Information about freehand Sketches.	1	59
		-	
4.2.1	Mallet.	1	2
4.2.2	Try Square.	-	4
4.2.3	Claw hammer.	-	4
4.3	Prospective Drawing.	-	4
4.3.1	Waste Box.	1/2	15
4.3.2	Wooden basket	1/2	30
4.3.3	Bed Side Table.	1	15
4.4	Measurements and divisions.		
4.4.1	Use of Command measurement.	1	
	4.4.2.1 Place point objects at measured intervals on an object.		4
4.4.2	Use of Command division.		
	4.4.2.1 Place evenly spaced paint objects.		
4.4.3	Specifying measured intervals on objects.		
4.4.4	Divided objects in to segments.		
4.5	Controlling the Drawing display by using zoom and pan.	1	3
4.5.1	Zooming and panning in real time.		
4.5.2	Display the previous view.		
4.5.3	Scaling a view.		
4.5.4	Centering.		
4.6	Drawing curved objects.		4
4.6.1	To create a spline by specifying points.		
4.6.2	To draw true ellipses using points and distances.		
4.6.3	To draw an elliptical arc using start and end angle.		
4.6.4	To draw an isometric circle.		
4.7	Using coordinate systems.		2
4.7.1	Working with UCS in view port.		
4.7.2	Saving and storing named UCS.		
4.8	Working with the interface introduction to the Auto CAD.	1	2
4.9	Tool Bar		
4.9.1	Tool bar Layout.		
4.9.2	Customs Tool Bar.		
4.10	Drawing set up.	1	1
4.11	Basic commands get started.		1

5.	5.1 Preparation of different jobs and projects		
	5.1.1. Cross Bar Joint.	-	30
	5.1.2. Clothes Hangers of different designs.	-	30
	5.1.3. Box (with different joints).	-	40
	5.1.4. Wooden Arts (use of wooden files).	-	50
	5.1.5. Small table (Rectangular).	-	50
	5.1.6. Waste Box.	-	35
	5.1.7. Stool.	-	35
	5.1.8. Bed Side Table	-	60
	5.2 Cutting Work	-	40
	5.2.1 Ayat-al-Kursi		
	5.2.2 Basket Cutting		
	5.2.3 Clock Cutting		
	5.2.4 Dry fruit try set Cutting (engraved)		
6.	Functional English	20	20
7.	Work Ethics	-	20

LIST OF TOOLS, EQUIPMENT & MACHINERY

Name of Trade	Wood Craftsmanship
Duration	1 – Year

Sr. No.	Name of Item / Equipment / Tools	Quantity
1.	Jack Plane	25 Nos.
2.	Smoothing Plane	25 Nos.
3.	Rabbet Plane	25 Nos.
4.	Cross Cut Saw 14"	25 Nos.
5.	Rip Saw	25 Nos.
6.	Try Square 8"	25 Nos.
7.	Try Square 6"	25 Nos.
8.	Screw Driver 8"	25 Nos.
9.	Screw Driver 4"	25 Nos.
10.	Claw Hammer	25 Nos.
11.	Pincer	25 Nos.
12.	Nail Punch	25 Nos.
13.	Saw Set Pliers	25 Nos.
14.	Formal Chisel 12, 20, 25 mm	25 Nos.
15.	Mortise Chisel 6, 10mm	25 Nos.
16.	Divider 8"	25 Nos.
17.	Marking Gauge	25 Nos.
18.	Sliding T-Bevel	25 Nos.
19.	Miter Square	25 Nos.
20.	Hand Drill 6 mm	25 Nos.
21.	Mallet	25 Nos.
22.	Half Round File 10"	25 Nos.
23.	Rasp Half Round 8"	25 Nos.
24.	Triangular File 6"	25 Nos.
25.	Mortise Gauge	25 Nos.
26.	Oil Stone 8"	25 Nos.
27.	Steel Tape 3 Meter	25 Nos.
28.	Round File 8"	25 Nos.
29.	Bit 2 to 6 mm	25 Nos.
30.	Bar Clamps 4	25 Nos.
31.	Circular Plane	25 Nos.
32.	Spoke Shave Plane	25 Nos.
33.	Oil Cane (Plastic Made)	25 Nos.
34.	Cross Peen Hammer 200g	25 Nos.
35.	Sprit Level	5 Nos.
36.	Inside Calliper	5 Nos.
37.	Outside Calliper	5 Nos.
38.	Nose Pliers	5 Nos.
39.	Spray Gun	5 Nos.

40.	Band Saw Machine 2'	1 No.
41.	Jointer Planner Machine 1 ½'	1 No.
42.	Thickness Machine 1 ½'	1 No.
43.	Disc Sander	1 No.
44.	Wood Turning Lathe	1 No.
45.	Spindle Moulder Machine (Heavy Duty)	1 No.
46.	Electrical Drill Machine	5 Nos.
47.	Jig Saw	5 Nos.
48.	Circular Saw	5 Nos.
49.	Electrical Planner	5 Nos.
50.	High Speed Router	5 Nos.
51.	Belt Sander	5 Nos.
52.	Seasoning Plant 7.5 CM Capacity	1 No.
53.	Circular Saw with Cross cutting attachments	1 No.
54.	Spindle Moulder	1 No.
55.	Mortising (chain)	1 No.
56.	Edge Sanding Machine	1 No.
57.	Profile Sanding Machine	1 No.
58.	Dovetail Machine	1 No.
	PORTABLE MACHINES	
59.	Electric Drill Machine	2 Nos.
60.	Portable Router	2 Nos.
61.	Portable Sander	2 Nos.
62.	Portable Jig Saw	2 Nos.
	SERVICE MACHINE	
63.	Band Saw Sharpening	1 No.
64.	Knife Sharpening	1 No.
65.	Band Saw Jointing Machine	1 No.
66.	Double Side Grinder (Local)	1 No.
67.	Tool Grinder Universal	1 No.
68.	Exhaust Ducting and Distribution of Air	2 Nos.
69.	Compressor	1 No.
70.	Moisture Meter	2 Nos
71.	Mirror Box Saw	3 Nos.
72.	Spray Guns	5 Nos.
73.	Spray Polish Booth	1 No.
74.	Generator Set 100 KVA	1 No.
75.	Clamps in different sizes	20 Nos.
76.	Heavy Duty Goggles	2 Nos.
77.	Dust Collector	1 No.
78.	Timber and Log Saws (One Man)	2 Nos.
79.	Timber and Log Saws (two Man)	2 Nos.
80.	Electric Chain Saw (36" or 48")	1 No.
81.	Steel Rod, 3ft. long 1 ½ thickness)	5 Nos.

LIST OF CONSUMABLE MATERIAL

Sr #	Material	Quantity
1	Soft Wood	300 CFT
2	Hard Wood	150 CFT
3	Board	1600 SFT
4	Hardware	Rs. 50,000/-
5	Nail Screw Glue	Rs. 10,000/-
6	Other Material	Rs. 20,000/-

EMPLOYABILITY OF PASS-OUTS

The pass-outs of this course can find job / employment opportunities in the following sectors / areas:-

1. Wood working manufacturing industries.
2. Work in specific field like kitchen, doors and cabinets etc.
3. Interior decoration like paneling and ceiling
4. Handicrafts Entrepreneur
5. Wood work contractor.
6. Own business/ workshop

MINIMUM QUALIFICATION OF INSTRUCTOR

3-Years Certificate in Wood Working Technology with 6 Years relevant experience

OR

2-Years Trade Certificate in Wood Working / Carpenter with 10 Years relevant Industry / Teaching experience.

And

1- Year Painter Trade certificate with 10 years relevant industry / teaching experience.

REFERENCE BOOKS

1. NAQSH-E-GOHAR by Khursheed Gohar
2. FUNN-E-KHATATI by Sabri Publishers
3. Handicraft Making Shops
4. Funn- E-Chobkari By MUHAMMAD SHAREEF ZIA
5. Computer Applications, PM Series, by Majid Sons, Urdu Bazar, Lahore.
6. Auto CAD 2000 by David Frey, BPS Publications Connaught place, New Delhi
7. Principles Of Wood Technology By J.ULLRICH
8. Wood Workers Manual By ALLBERT JACKSON
9. Technical Drawing And Practical Course Wood Working Trades By DAVID DAY
10. Fun-E-Chobkari By MUHAMMAD SHAREEF ZIA

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**REVIEWED
ERRORS ARE HIGHLIGHTED IN RED**