





## Model Curriculum: Lead Carpenter-Wooden Furniture

Qua	ification Pack	Lead Carpenter-Wooden Furniture						
QP Code		FFS/Q0104						
NSQ	F Level	4						
Trair	ning Type	RPL						
Trair	ning Hours	68 Hours (Practical 30:00 Hours and Theory 30:00 Hours+8 Hours Assessment						
S No	Module	Objectives	NOS Refere nce	Methodology	Training Tools/Aids	Duratio n (hours)		
1	Introduction	<ul> <li>Organizations rule and regulations</li> <li>Introduction of Job role</li> <li>Work and responsibility of Lead Carpenter- Wooden Furniture</li> <li>Introduction of furniture industries</li> <li>Scope of Lead Carpenter in Furniture Industries</li> </ul>		Classroom lecture/ PPT session	Black board, /white board, markers, duster etc	02:00 Hours		
2	Maintenance of work area, tools and machines	<ul> <li>Maintenance of Work area (workshop)</li> <li>Safe Working Environment</li> <li>Proper managed and safe storage of materials-woods, plywood, adhesive, hardware and fittings</li> <li>Waste disposal policy</li> <li>Hazard free work area</li> <li>Proper place for working Maintenance of Tools</li> <li>Safe storage of all sharp edge tools and other tools</li> <li>Proper method of all sharpening the tools</li> <li>Safe usage and handling to tools and equipment Maintenance of machine</li> <li>Follow the manufacture safety manual</li> <li>Attachment of safety guard</li> <li>Timely servicing Practical</li> <li>Demonstrate safe storage of materials, how to make hazard free work area</li> <li>Demonstrate to sharp tools in proper way</li> <li>Demonstrate safe usage of all tools</li> <li>Demonstrate safe usage of all power tools</li> </ul>	FFS/N 8501	Classroom lecture/ PPT session Demonstrati on, group discussion, video	Power tools- Electric planer, Circular saw, Electric router, Empact drill machine, Jig saw, Electric sander, Manual tools- Measuremen t Tools, Planning Tools, Sawing Tools, Sawing Tools, Sawing Tools, Marking Tools Testing Tools, Chipping Tools, Chipping Tools, Holding Tools, Boring Tools, Boring Tools, Filling Tools, Supportive Tools	Theory 05:00 Hours (Theory 02:00 Hours Practical 03:00 Hours)		







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		Model Cumculum. Lead Carpenter-W	1			
3	Health and safety	<ul> <li>Introduction and application of Personnel Protective Equipment- Safety Goggles, Safety Shoes, Ear Protector/Muff, Face Mask</li> <li>Hazards and potential risks- mechanical hazard, physical hazard, biological hazard, chemical hazard</li> <li>Introduction of Safety Sign</li> <li>Correct Body posture while working</li> <li>Safe material handling procedure-glass, heavy wood, etc.</li> <li>Introduction and usage of Fire Extinguisher - Types of Fire Extinguisher, class of fire</li> <li>Personal health and hygiene <b>Practical</b></li> <li>Demonstrate use of Fire Extinguisher</li> <li>Demonstrate use of First aid box Demonstrate use of First aid box</li> <li>Demonstrate safety measure of mechanical hazard, chemical hazard, physical hazard etc</li> </ul>	FFS/N 8601	Classroom lecture/ PPT session Demonstrati on, group discussion, video	Personnel Protective Equipment (PPE) Fire Extinguisher, First Aid Box	04:00 Hours (Theory 02:00 Hours Practical 02:00 Hours)
4	Work effectively with other	<ul> <li>Organization-rules and regulations, follow escalation matrix, reporting system, working system at organizations</li> <li>Team work-how to work in team and its benefits</li> <li>Work Planning-planning of timeline, materials, hardware and fittings, tools and machines, manpower etc.</li> <li>Minimize waste</li> <li>Communication skill- Verbal, written, electronic Good behaviour, punctuality <b>Practical</b></li> <li>Demonstrate on the work planning for making furniture</li> <li>Demonstrate on the team work</li> </ul>	FFS/N 8801	Classroom lecture/ PPT session	Black board, /white board, markers, duster etc	03:00 Hours
5	Wood, Engineered wood and Laminate	<ul> <li>Types of woods-soft wood and hard wood, properties</li> <li>Types of Engineered Wood-Block board, Ply wood, MDF, Particle Boards-</li> <li>Types of Laminates -Veneer, laminate sheets-how, why and where to use it</li> <li>Practical</li> <li>Demonstrate it on video</li> </ul>	FFS/N 0106,	Classroom lecture/ PPT session, video /Demonstrat ion	Solid wood- soft& hard wood, Block Board, wood ply, MDF, Laminate sheet, Veneer, etc.	01:30 Hours
6	Types of Furniture	<ul> <li>Types of Furniture- Commercial and residential</li> </ul>	FFS/N 0106,	PPT session, Demonstrate by video	Furniture Catalogue	01:30 Hours







	Technical	• Types of Drawing -Elevation, Plan, 3D and 2D,	FFS/N	Classroom	Furniture	04:00
	Drawing	<ul> <li>Section etc.</li> <li>Practical</li> <li>Demonstrate how to read and interpret it on white board by Trainer</li> </ul>	0106,	lecture/ PPT session Classroom	drawing Catalogue	Hours (Theory 02:00 Hours Practica 02:00 Hours)
3	Measurement and calculations	<ul> <li>Measurement -Types of measurement systems- FPS and MKS</li> <li>Calculations Plus, Minus, multiply, divide etc. in both measurement system</li> <li>Calculations and costing of materials used in wooden furniture -woods, panel, hardware etc. <b>Practical</b></li> <li>Demonstrate how to measure the wood in MKS and FPS</li> <li>Demonstrate how to calculate the wood and materials</li> <li>Demonstrate how to calculate the cost of furniture</li> </ul>	FFS/N 0106,	Classroom lecture/ PPT session Classroom Demonstrate by Trainer	Measurement Tools	06:00 Hours (Theory 02:00 Hours Practica 04:00 Hours)
9	Electric Tools used in wooden furniture	<ul> <li>Introduction and usage of Power Tools -Electric Planer, Electric Drill Machine, Electric Circular saw, Electric Router, Jig saw, Sander</li> <li>Practical</li> <li>Demonstration of safe usage of all power tools</li> </ul>	FFS/N 0107	Classroom lecture/ PPT session Demonstrate by Trainer	Power Tools- Planer, Router, Circular Saw, Jig Saw, Sander, Empact Drill Machine	02:00 Hours (Theory 01:00 Hours Practica 01:00 Hours)
10	Introduction of Machines used in wooden Carpentry	<ul> <li>Introduction and work of machine: - Surface Planer with gauge, Panel saw/Table circular saw, Band saw, Chain/chisel Mortiser, CNC Router etc.</li> <li>Practical</li> <li>Demonstration of safe usage of all machines</li> </ul>	FFS/N 0107	Demonstrate by ppt/video	Optional (Electric Power tool or Advance machines)	







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4.6		Woder Cumculum: Lead Carpenter-w	1			
11	Manual Tools	Introduction of Manual Tools-	FFS/N	Classroom	Measuremen	08:00
	used in	Measurement Tools-Measurement Tape,	0107	lecture/ PPT	t Tools,	Hours
	wooden	Steel Rule, Callipers		session/Dem	Planning	
	furniture	• Planning Tools: -Jack Plane, Smoothing Plane,		onstration	Tools,	
		Spoke Shave, Compass Plane			Sawing	(Theory
		<ul> <li>Marking Tools-Pencil, Marking Knife, Marking</li> </ul>			Tools,	03:00
		Thread			Marking	Hours
		<ul> <li>Striking /Hammering Tools: -Cross Peen</li> </ul>			Tools Testing	Practical
		Hammer, Mallet			Tools,	05:00
		Cutting/Sawing Tools: -Hand Saw, Compass			Chipping	Hours)
		Saw, Tenon Saw, Coping Saw			Tools,	
		• Drilling Tools: - Hand Drill, Flat Drill Bit, Centre			Holding	
		Point Drill Bit Set, Hinges Boring Drill Bits			Tools, Boring	
		• Sharpening Tools: - Oil Stone, Triangular Files			Tools, Filling	
		Chipping Tools: - Firmer Chisel, Bevel Chisel,			Tools,	
		Mortise Chisel			Supportive	
		<ul> <li>Testing Tools: - Try Square, Mitre Square,</li> </ul>			Tools	
		Sprit Level, Water Level Pipe				
12	Hardware	Types of Nails,	FFS/N	Classroom	Different	05:00
12	and		0107	lecture/ PPT	Types of	Hours
	Accessories	Types of Hinges- Butt Hinges, Auto Closing	0107	session	Nails, Screw,	nours
	Accessories	Hinges (0 Crank, 9.5 Crank, 16 Crank)		Session		(Theory
		• Types of Handle: - Cabinet Handle, Door			Hinges, Handles,	(Theory 02:00
		Handle, Knob			nanoles.	
1		PVC Edge Banding Tape			Locks, PVC	Hours
		<ul> <li>Types of Screw- Slotted Head, Philip Head,</li> </ul>			Locks, PVC Edge	Hours Practical
					Locks, PVC Edge Banding	Hours Practical 03:00
		<ul> <li>Types of Screw- Slotted Head, Philip Head,</li> </ul>			Locks, PVC Edge Banding Tape, Locks	Hours Practical
		<ul> <li>Types of Screw- Slotted Head, Philip Head, Pozidrive, Counter Sunk (CSK) Etc</li> </ul>			Locks, PVC Edge Banding Tape, Locks Drawer	Hours Practical 03:00
		<ul> <li>Types of Screw- Slotted Head, Philip Head, Pozidrive, Counter Sunk (CSK) Etc</li> <li>Types of Drawer Chenal/Runner: - Telescopic,</li> </ul>			Locks, PVC Edge Banding Tape, Locks Drawer Channels/Ru	Hours Practical 03:00
		<ul> <li>Types of Screw- Slotted Head, Philip Head, Pozidrive, Counter Sunk (CSK) Etc</li> <li>Types of Drawer Chenal/Runner: - Telescopic, Bottom Mounted, Under Mounted Etc Practical</li> </ul>		Demonstrate	Locks, PVC Edge Banding Tape, Locks Drawer	Hours Practical 03:00
		<ul> <li>Types of Screw- Slotted Head, Philip Head, Pozidrive, Counter Sunk (CSK) Etc</li> <li>Types of Drawer Chenal/Runner: - Telescopic, Bottom Mounted, Under Mounted Etc</li> <li>Practical</li> <li>Demonstrate How to Apply/Fix Hardware and</li> </ul>		Demonstrate by Trainer	Locks, PVC Edge Banding Tape, Locks Drawer Channels/Ru	Hours Practical 03:00
		<ul> <li>Types of Screw- Slotted Head, Philip Head, Pozidrive, Counter Sunk (CSK) Etc</li> <li>Types of Drawer Chenal/Runner: - Telescopic, Bottom Mounted, Under Mounted Etc Practical</li> </ul>			Locks, PVC Edge Banding Tape, Locks Drawer Channels/Ru	Hours Practical 03:00
		<ul> <li>Types of Screw- Slotted Head, Philip Head, Pozidrive, Counter Sunk (CSK) Etc</li> <li>Types of Drawer Chenal/Runner: - Telescopic, Bottom Mounted, Under Mounted Etc Practical</li> <li>Demonstrate How to Apply/Fix Hardware and Fittings in Furniture-Hinges, Drawer Channels,</li> </ul>			Locks, PVC Edge Banding Tape, Locks Drawer Channels/Ru	Hours Practical 03:00
	Drocoss of	<ul> <li>Types of Screw- Slotted Head, Philip Head, Pozidrive, Counter Sunk (CSK) Etc</li> <li>Types of Drawer Chenal/Runner: - Telescopic, Bottom Mounted, Under Mounted Etc Practical</li> <li>Demonstrate How to Apply/Fix Hardware and Fittings in Furniture-Hinges, Drawer Channels, Handle Etc.</li> </ul>			Locks, PVC Edge Banding Tape, Locks Drawer Channels/Ru	Hours Practical 03:00 Hours)
	Process of	<ul> <li>Types of Screw- Slotted Head, Philip Head, Pozidrive, Counter Sunk (CSK) Etc</li> <li>Types of Drawer Chenal/Runner: - Telescopic, Bottom Mounted, Under Mounted Etc Practical</li> <li>Demonstrate How to Apply/Fix Hardware and Fittings in Furniture-Hinges, Drawer Channels, Handle Etc.</li> <li>Introduction and learn correct method of</li> </ul>			Locks, PVC Edge Banding Tape, Locks Drawer Channels/Ru	Hours Practical 03:00 Hours) 04:00
	marking,	<ul> <li>Types of Screw- Slotted Head, Philip Head, Pozidrive, Counter Sunk (CSK) Etc</li> <li>Types of Drawer Chenal/Runner: - Telescopic, Bottom Mounted, Under Mounted Etc Practical</li> <li>Demonstrate How to Apply/Fix Hardware and Fittings in Furniture-Hinges, Drawer Channels, Handle Etc.</li> <li>Introduction and learn correct method of Marking, cutting, shaping of wood/panels with</li> </ul>			Locks, PVC Edge Banding Tape, Locks Drawer Channels/Ru nner, Handle	Hours Practical 03:00 Hours) 04:00 Hours
		<ul> <li>Types of Screw- Slotted Head, Philip Head, Pozidrive, Counter Sunk (CSK) Etc</li> <li>Types of Drawer Chenal/Runner: - Telescopic, Bottom Mounted, Under Mounted Etc Practical</li> <li>Demonstrate How to Apply/Fix Hardware and Fittings in Furniture-Hinges, Drawer Channels, Handle Etc.</li> <li>Introduction and learn correct method of</li> </ul>			Locks, PVC Edge Banding Tape, Locks Drawer Channels/Ru nner, Handle Measuremen	Hours Practical 03:00 Hours) 04:00 Hours (Theory
13	marking,	<ul> <li>Types of Screw- Slotted Head, Philip Head, Pozidrive, Counter Sunk (CSK) Etc</li> <li>Types of Drawer Chenal/Runner: - Telescopic, Bottom Mounted, Under Mounted Etc Practical</li> <li>Demonstrate How to Apply/Fix Hardware and Fittings in Furniture-Hinges, Drawer Channels, Handle Etc.</li> <li>Introduction and learn correct method of Marking, cutting, shaping of wood/panels with</li> </ul>	FFS/N	by Trainer	Locks, PVC Edge Banding Tape, Locks Drawer Channels/Ru nner, Handle Measuremen t and	Hours Practical 03:00 Hours) 04:00 Hours (Theory 02:00
13	marking,	<ul> <li>Types of Screw- Slotted Head, Philip Head, Pozidrive, Counter Sunk (CSK) Etc</li> <li>Types of Drawer Chenal/Runner: - Telescopic, Bottom Mounted, Under Mounted Etc Practical</li> <li>Demonstrate How to Apply/Fix Hardware and Fittings in Furniture-Hinges, Drawer Channels, Handle Etc.</li> <li>Introduction and learn correct method of Marking, cutting, shaping of wood/panels with</li> </ul>	FFS/N 0107	by Trainer Classroom	Locks, PVC Edge Banding Tape, Locks Drawer Channels/Ru nner, Handle Measuremen t and Marking	Hours Practical 03:00 Hours) 04:00 Hours (Theory 02:00 Hours
13	marking,	<ul> <li>Types of Screw- Slotted Head, Philip Head, Pozidrive, Counter Sunk (CSK) Etc</li> <li>Types of Drawer Chenal/Runner: - Telescopic, Bottom Mounted, Under Mounted Etc Practical</li> <li>Demonstrate How to Apply/Fix Hardware and Fittings in Furniture-Hinges, Drawer Channels, Handle Etc.</li> <li>Introduction and learn correct method of Marking, cutting, shaping of wood/panels with</li> </ul>		by Trainer Classroom lecture/ PPT	Locks, PVC Edge Banding Tape, Locks Drawer Channels/Ru nner, Handle Measuremen t and	Hours Practical 03:00 Hours) 04:00 Hours (Theory 02:00 Hours Practical
13	marking,	<ul> <li>Types of Screw- Slotted Head, Philip Head, Pozidrive, Counter Sunk (CSK) Etc</li> <li>Types of Drawer Chenal/Runner: - Telescopic, Bottom Mounted, Under Mounted Etc Practical</li> <li>Demonstrate How to Apply/Fix Hardware and Fittings in Furniture-Hinges, Drawer Channels, Handle Etc.</li> <li>Introduction and learn correct method of Marking, cutting, shaping of wood/panels with</li> </ul>		by Trainer Classroom lecture/ PPT	Locks, PVC Edge Banding Tape, Locks Drawer Channels/Ru nner, Handle Measuremen t and Marking	Hours Practical 03:00 Hours) 04:00 Hours (Theory 02:00 Hours Practical 02:00
13	marking,	<ul> <li>Types of Screw- Slotted Head, Philip Head, Pozidrive, Counter Sunk (CSK) Etc</li> <li>Types of Drawer Chenal/Runner: - Telescopic, Bottom Mounted, Under Mounted Etc Practical</li> <li>Demonstrate How to Apply/Fix Hardware and Fittings in Furniture-Hinges, Drawer Channels, Handle Etc.</li> <li>Introduction and learn correct method of Marking, cutting, shaping of wood/panels with</li> </ul>		by Trainer Classroom lecture/ PPT	Locks, PVC Edge Banding Tape, Locks Drawer Channels/Ru nner, Handle Measuremen t and Marking	Hours Practical 03:00 Hours) 04:00 Hours (Theory 02:00 Hours Practical







14	Wooden	Types of Joints-	FFS/N	Classroom	Demo/sampl	07:00
	Joint-for	<ul> <li>Lengthen Joint-scarf Joint, Dovetail Joint etc.</li> </ul>	0107	lecture/ PPT	e of all joints	Hours
	making	<ul> <li>Width wise Joint-tongue and groove, groove</li> </ul>		session		
	wooden	and feather Reinforce dowel butt joint etc				(Theory
	furniture	• Framing Joint-Mortise and Tenon, Half lap joint,				03:00
		Bridle Joint, Dado Joint Mitre joint etc				Hours
		• Box Joint- Butt Joint, finger joint, Dovetail Joints				Practica
		etc				04:00
		Practical		<b>.</b>		Hours)
		• Demonstration use and making process of all		Demonstrate		
		joints	<b>FFC (N</b> )	by Trainer		07.00
15	Introduction	• Introduction and types of Lock: - Mortise Lock,	FFS/N	Classroom	Mortise Lock, Rim	07:00
	of lock used in wooden	Rim lock, Cylindrical Lock, cam lock, Dead Lock	5703 FFS/N	lecture/ PPT		Hours
	furniture	etc	5704	session/Video	Lock, Cylindrical	(Theory
	luinture	correct method of Installation lock     Boguired Tools & Machines for installation lock	3704		Lock, Dead	03:00
		<ul> <li>Required Tools &amp; Machines for installation lock</li> <li>Practical</li> </ul>			Lock, Cam	Hours
		Demonstrate installation of all furniture lock			Lock etc.	Practica
		• Demonstrate installation of all furniture lock				04:00
	Turner				Catalanua af	Hours)
	Types of Doors	• Types of Door-Flush Door, Double Leaf Door,			Catalogue of Doors	
	Doors	Louver Door, Wire mesh Door, Glazing/Glass			Doors	
		Door, Sliding Door				
14						
15	Service and	• Servicing and repairing of lock used in wooden			Lock Safety	
	Repair	furniture			Manual,	
		Name of locks parts			Warranty	
		<ul> <li>Locks repairing tools</li> </ul>		Demonstrate	Card, Lock	
		Practical		by Trainer	Repairing	
		<ul> <li>Demonstrate repairing and servicing of lock</li> </ul>			Tools	
16	Assessment	Theory and Practical Assessment				08:00
						Hours