Furniture and cabinet making COURSE – PCP (THEORY & PRACTICAL) TRAINING SCHEDULE

Total course duration (320 hr)		
PCP (120hrs)		Self learning (200 hrs)
Practical (80 hrs)	Theory (40 hrs)	

	Schedule		PCP- Topic				Learning outcome
Week	**Topic**	**Day**	**Duration (hr)**	**Theory**	**Duration (hr)**	**Practical**	After attending the PCP
Week 1	Introduction of carpentry	Day1	2 hrs	• Introduction of carpentry for furniture making • Basic need for furniture making • Introduction of Raw material (Wood/Timber/Mica) used in furniture making • Opportunity after completing the course of furniture and cabinet making • Applications of furniture and cabinet making	4 hrs	• Physical demonstration of furniture and cabinet making such as Wood, ply board, mica etc. • Physical demonstration of various tools used in furniture and cabinet making. • Display the various furniture by chart such as chairs, beds, cabinet, modular kitchen etc.	Learner would be able to -: • Identify the job role & scope of a furniture & cabinet maker. • Identify the task and responsibilities of this profession. • Identify various applications of furniture and cabinet making. • Identify the various raw materials used in furniture and cabinet making. • identify the various tools

							used in making furniture.
	Introduction about the Raw materials i.e. used in furniture and cabinet making process.	Day 2	2 hrs	• General introduction of timber. • Introduction of Wood, ply board, mica etc and there characteristics. • Introduction of Introduction of different woods -: hard and soft wood, • Different ply boards used in furniture and cabinet making.	4 hrs	• Physical display or by chart different woods • Physical display or by chart various wood defects. • Physical display or by chart structure of a timber.	Learner would be able to-: • Identify the various types of woods used in furniture and cabinet making. • Differentiate between wood and ply board. • Differentiate between hard and soft wood. • Sketch the structure of wood. • Identify the various wood defects.
Week 2	Introduction of various tools/equipment used in furniture and cabinet making process.	Day 1	2 hrs	• General introduction about various tools/equipment used in Furniture and cabinet making. • Introduction about various machine used in furniture and cabinet making if any.	4 hrs	• Physical demonstration of various tools used in furniture and cabinet making. • Categories marking, measuring, cutting, finishing, and holding tools. • Physical demonstration of sharpening of tools.	Learner would be able to -: • Identify various tools used in furniture and cabinet making process. • Categories various tools/machineries • select & use the appropriate tools for a

							particular operation. • Handle the various tools safely. • Demonstrate the operation of tools.
	Introduction about the various operations performed in furniture and cabinet making operation.	Day 2	2 hrs	• General introduction of cutting operation. • General introduction of sawing operation. • General introduction of wood working lathe machine.	4 hrs	• Physical demonstration of working on carpentry tools to performing measuring operation. • Physical demonstration of working on carpentry machine to performing cutting operation by different saws, chisels etc.	Learner would be able to -: • Carry out the measuring operation on the work piece. • Independently work to perform various operations involved in furniture and cabinet fabrication. • Undertake sawing operation in furniture and cabinet fabrication. • Handle & use machinery for performing cutting operations.
Week 3	Operations on wood/ply board	Day 1	2 hrs	• General introduction of planing operation. • General introduction of	4 hrs	• Working on wood with tools/ on a machine for planning operation by	Learner would be able to-:: • Handle & use jacks and

				drilling operation.		wooden jack planer/iron jack planer. • Working with tools/ machine for a drilling operation on a wood/ply board by drill machine.	drill machines. • perform the planing operation with appropriate safety measures. • Carry out drilling operation with appropriate safety measures.
	Operations on wood/ply board	Day 2	2 hrs	• General introduction of boring operation. • General introduction of chiseling process. • Precautions during handling of tools.	4 hrs	• Working with tools/ machine for a boring operation on wood/ply board. • Working with tools/machine for a chiseling process.	Learner would be able to-: • Perform the Chiseling operation on wood /ply board. • Carry out boring operation with appropriate safety measures.
Week 4	Preparation of various carpentry joints	Day 1	2 hrs	• Introduction of various carpentry joints. • What is the need of carpentry joints? • Needs of using other raw material for making joint.	4 hrs	• Practice for making the carpentry joint such as Halving joints, trenching and housing joints, Mortise and tenon joints, plain hunched tenon and mortise,	. Learner would be able to-: • Identify various carpentry joints. • Identify & use raw materials required in jointing operation.
		Day 2	2 hrs	• Introduction of various carpentry joints for more	4 hrs	• Practice for making mitre tenon, mortise joint, stub tenon, bare faced tenon, and	• Identify the use of joints for various applications

				practice. • What is the need of carpentry joints? Needs of using other raw material for making joint.		bridle joints etc.	• Fabricate various carpentry joints such as- dovetail, tenon, corner, edge etc.
Week 5	Polishing operation	Day 1	2 hrs	• Introduction of polishing operation. • What is the need of polishing? • Steps involved in polishing process.	4 hrs	• Preparation of varnish/polish. • Practice of Polishing on the given object. (Furniture such as chair, bed, cabinet, stool etc.)	Learner would be able to : • Identify & use materials used for furniture polishing. • Choose the appropriate material for polishing depending on type of wood. • Prepare the varnish for polishing. • Perform polishing on a given wooden object/furniture piece. • Adopt proper procedure for polishing of furniture.
	Continue of polishing operation	Day 2	2 hrs	• Materials used for polishing • Characteristics of material.	4 hrs	• Do more practice for polishing on various furniture work piece.	
Week 6	Basic calculations	Day1	2 hrs	• Introduction about calculation required in furniture and	4 hrs	• Physical display and demonstration of various instrument used for	Learner would be able to-: • Identify the required tool

				cabinet making. • Introduction to various instruments used in calculation. • Introduction about conversion table.		measurement according to calculation in furniture and cabinet making. • Practice unit • Conversion. • Practice on problem for calculation.	used for measuring in the carpentry job. • Carry conversion of one unit to another like inch in to mm. • Competent to carry calculation required for measurement of work piece. • Measure calculated dimensions of the furniture piece/wood piece. • Measure various dimensions frequently used in furniture making.
		Day 2	2 hrs	• Introduction about calculation required in furniture and cabinet making. • Introduction to various instruments used in calculation. • Introduction about conversion table.	4 hrs	• More practice for measurement for different sizes of work piece.	
Week 7	Supporting raw materials for furniture and cabinet making.	Day 1	2 hrs	• Introduction about the supporting raw material or other consuming material in furniture and cabinet making. • Introduction about Nail, screw & Nut & bolts. • Introduction about	4 hrs	• Collect the nails, screw, and nuts and bolts of different specifications. • Joint two or more pieces of wood/ply board with the support of adhesive. • Make square, plain, oblique and mitre joints	Learner will be able to-: • Identify the various nails, screws, nut, bolts and washer. • Use nails, screws, nut, bolts and washer in furniture and cabinet

				adhesive. • Other consumables in carpentry operations.		with the help of nails.	making operations. • Identify & use different adhesives used in furniture and cabinet making operations. • undertake different project in furniture and cabinet making.
	Industrial visit	Day 2	2 hrs	• In a industrial visit Instructor will address about the all information related with carpentry.	4 hrs	Visit of any big carpentry shop where fabricating. work is done on furniture	• Identify the scope of the furniture work. • Identify the layout of a furniture shop
Week 8	Estimating & costing	Day 1	2 hrs	• Introduction of estimation and costing. • Need of costing. • How costing is calculated • Introduction of different cost such as-direct cost, indirect cost, total cost.	4hrs	• Problem-calculate the cost of a table. • Calculate the cost of a given window. • Calculate the cost of a given door. • Calculate the cost of a door frame.	Learner would be able to -: • Calculate the manufacturing cost of a furniture piece. • Estimate the quantity of material required for desired dimensions of the furniture piece.
	Cabinet fabrication	Day 2	2 hrs	• Inspection of ply board/wood for any defect.	4hrs	• Fabrication of sliding type and non sliding type	Learner would be able to -: • Identify the major

				• Measuring and marking of ply board/wood. • Cutting of ply board/wood by rip saw. Joining of ply board by nail & with adhesive.		cabinet.	materials required for cabinet fabrication. • Fabricate sliding type cabinet. • Fabricate non sliding type cabinet with door.
Week 9	Project-1 Fabrication of dressing table of in a group of four students	Day 1	2 hrs	• Inspection of ply board/wood for any defect. • Measuring and marking of ply board/wood. • Cutting of ply board/wood by rip saw. • Joining of ply board by nail & with adhesive.	4 hrs	• Physical inspection of ply board/wood for any defect. • Physical measuring and marking on wood/ply board. • Cutting operation on wood/ply board by a saw. • Practical joining of wood with nails and adhesive.	Learner would be able to • Identify the defect in ply board/wood. • Take the measurement on wood/ply board. • Hold the wood/ply board in a holding device i.e.banch vise/C-clamp etc. • Carry out cutting operations on wood/ply board with the help of saw.
	Continue of given Project-1	Day 2	2 hrs	• Preparation the base of dressing table for varnishing. • Varnishing of the dressing	4 hrs	• Actual preparation of base for primer/varnish. • Actual Painting /polishing	Learner would be able to -: • prepare the base for varnish.

				table. • Fixing of a mirror.		of book shelf. • Actual mirror setting if any.	• Perform the varnish on a given wooden piece.
Week 10	Project-2 Fabrication of Book shelf storage of W 1600x D 450x H 1800 mm in a group of four students	Day 1	2 hrs	• Inspection of ply board for any defect. • Measuring & making on ply board. • Cutting of ply board by rip saw. • Preparation of various joints with nails • Joining of wood with adhesive.	4 hrs	• Physical inspection of ply board for any defect. • Physical measuring and marking on wood. • Cutting operation on wood by a saw. • Practical joining of wood with nails and adhesive.	Learner would be able to • Identify the any defect in ply board/wood. • Take the measurement on mood/ply board. • Hold the wood/ply board in a holding device i.e.banch vise/c-clamp etc. • Cut the wood/ply board by the saw. • Fabricate various carpentry joint. • Join the wood with nail/adhesive.
	Continue of given Project-2	Day 2	2 hrs	• Joining of wood for final shape of project. • Preparation the base of book shelf storage for	4 hrs	• Actual joining of wood for final shape. • Actual preparation of base for primer/varnish.	Learner would be able to -: • Prepare the base of wood item for primer or polishing.

				varnishing/primer. • Varnishing/painting of the book shelf storage. • Mirror fixing if any		• Actual Painting /polishing of book shelf. • Actual mirror setting if any.	• Perform the painting or polishing of an item. • Develop finished furniture piece.