

**DETAILED SYLLABUS FOR THE POST OF CARPENTER IN KERALA STATE WATER
TRANSPORT DEPARTMENT (CATEGORY NO.280/2025)**

(TOTAL 100 MARKS)

Sl. No.	Modules	Topics	Marks
1	Introduction of carpentry and safety precaution	Introduction of carpentry General discipline, Workshop discipline and Housekeeping. Safety precaution in the workshop and Industrial safety Importance of PPE, Types of PPE and their applications.	10
2	Timber	Introduction of Timber, Growth of trees ,cross section of tree trunk, Soft wood and Hard wood, their differences, Common Indian timbers, Defects and Diseases Seasoning of Timber, Conversion of Timber.	10
3	Hand Tools	Measuring Tools, Marking Tools, Testing Tools, Supporting Tools, Holding Tools, Sawing Tools, Planing Tools, Chiseling Tools, Boring Tools, Striking Tools, Impelling Tools, Miscellaneous Tools, Abrading Tools.	15
4	Joints	Lengthening Joints, Widening Joints, Framing joints, Angle Joints etc.	15
5	Simple Furniture Making	Different Types of Furniture, Veneers and Ply wood, Types of Glues/ Adhesives, Nails and Screws, Calculation of Timber.	10
6	Wood carving	Description f Different Carving Tools, Properties of Carving wood.	05
7	Wood Finishing	Description f Different Carving Tools, Properties of Carving wood.Paints and its ingredients and agents, Preparation of Surface for staining,	10

		Uses of different grade Sand papers, Preparation of Putty, French Polish, Method of applying Wax Polish	
8	Advanced wood working machines	Band sawing machine, Circular sawing machine, Surface planer, Thicknesser, Wood turning Lathe, Mortising machine, Tenoning machine, Universal wood working machine, Jig saw machine, Bench Drilling machine, Bench grinder etc. Portable Machines.	10
9	Pattern making	Types of Pattern, Advantages and Disadvantages of Wooden pattern	05
10	Building Construction	Roof, Doors and Windows, Wooden Stairs, Wooden Partition, Types of Hinges and Door locks, Bolts, Nuts and Washers.	10

NOTE: - It may be noted that apart from the topics detailed above, questions from other topics prescribed for the educational qualification of the post may also appear in the question paper. There is no undertaking that all the topics above may be covered in the question paper.