

**DETAILED SYLLABUS FOR THE POST OF JUNIOR INSTRUCTOR**  
**MECHANIC DIESEL TRADE in INDUSTRIAL TRAINING**  
**DEPARTMENT - CAT NO: 658/2023 - TOTAL 100 MARKS**

| <b>SL. NO.</b> | <b>MODULE</b>                      | <b>NAME OF SUBJECT</b>  | <b>MARKS</b> |
|----------------|------------------------------------|---|--------------|
| 1              | Hand tools                         | Measuring, Marking , Cutting & Operation of tools                               | 10           |
| 2              | Precision Instruments              | Precision instruments & operation   | 10           |
| 3              | Locking Devices & Fasteners        | Different types of locking devices & fasteners                                  | 10           |
| 4              | Tap & Dies                         | Tap, Dies & operation   | 10           |
| 5              | Hydraulics & Pneumatics            | Jacks, Pressure type control valves, Brakes, etc.                               | 10           |
| 6              | Marine & Stationary engines        | Types of engines and working  | 10           |
| 7              | Auto mobile engine                 | Working principle of engine, Types of engines, Working of engines               | 10           |
| 8              | Construction of engine & materials | Different types of engine, Parts of engine, Working of parts & Materials        | 10           |
| 9              | Fuel system & Emission Control     | Fuel, Fuel System, Parts of fuel system, Intake system valves, Emission control | 10           |
| 10             | Basic electricity & Battery        | Electricity, Charging system, starting system & Battery                         | 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.**

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