

# DMRC Maintainer Syllabus

## DMRC Maintainer Paper-1 Exam Pattern

<u>S.No</u>	<u>Type of Exam</u>	<u>Subjects</u>	<u>Number of Questions</u>	<u>Total Marks</u>	<u>Duration</u>
1	Objective Type	General Awareness	120	120 Marks	1.30 Hours
2		Reasoning			
3		Quantitative Aptitude			
4		Concerned Discipline			

## DMRC Maintainer Paper-2 Exam Pattern

<u>S.No</u>	<u>Type of Examination</u>	<u>Subject</u>	<u>Topic Names</u>	<u>Marks</u>	<u>Duration</u>
1	Subjective Type	English	Paragraph Writing	60 Marks	45 Minutes
2			Comprehension		
3			Essay writing on Science & Technology		

# DMRC Maintainer Exam Syllabus

## Delhi Metro Syllabus for Maintainer Exam 2020-21 – General Awareness

- Current Affairs (National and International).
- Sports.
- Science – Inventions and Discoveries.
- Budget and Five Year Plans.
- Budget and Five Year Plans.
- Who is who?
- Major Financial/Economic News.
- Awards and Honors.
- Books and Authors.
- Abbreviations & Important Days and more.

## DMRC Syllabus for Reasoning

- Spatial Visualization.
- Arithmetical Reasoning.

- Similarities and Differences.
- Observation.
- Arithmetic Number Series.
- Relationship concepts.
- Spatial Orientation.
- Visual Memory.
- Discrimination.
- Figures Classification.
- Non-verbal series.
- Analogies.
- Coding and Decoding etc.

#### **Delhi Metro Rail Corporation limited Maintainer Syllabus for Quantitative Aptitude**

- Time and Work.
- Simple and Compound Interest.
- Unitary Method.
- Decimal Fractions.
- Algebra.
- Number System.
- Percentage, Time and Distance.
- HCF, LCM.
- Average.
- Profit and Loss.
- Data Interpretation.
- Mensuration (2D and 3D).

#### **DMRC Maintainer Syllabus for Logical Ability**

- Verbal Syllabus
- Number & Alphabet Series.
- Test of Direction Sense.
- Coding-Decoding.
- Arithmetical Reasoning.
- Problem on Age Calculation.
- Blood Relations & Decision Making etc.
- Non-Verbal Syllabus
- Mirror Images.
- Grouping Identical & Embedded Figures.

### DMRC Electrical Engineering Syllabus for Maintainer

- Utilization of Electrical Energy.
- Power Electronics & Drives.
- Electronics Devices.
- Network Analysis.
- Electromagnetic Theory.
- Control Systems.
- Analog and Digital Electronics.
- Electrical Instrumentation.
- Power System Protection.
- Power Systems.
- Electrical Machines.
- Power System Analysis & Control.
- Switch Gear and Protection etc.

### Delhi Metro Rail Corporation Maintainer Syllabus – Electronics Engineering

- Industrial Electronics.
- Advanced Communications.
- Circuit Theory/ Digital Electronics.
- Basic Electronics/ Power Electronics.
- Power Electronics & Drives.
- Analog Electronics.
- Microprocessors & Microcontrollers.
- Digital Communications.
- Analog Communications.
- Measurement & Instrumentation.
- Computer Hardware etc.

### Delhi Metro Maintainer Syllabus for Mechanical

- IC Engine Combustion.
- Engineering Mechanics and Strength of Materials.
- Thermal Engineering.
- Properties of Pure Substances.
- Theory of Machines and Machine Design.
- 1st and 2nd Law of Thermodynamics.
- Air standard Cycles for IC Engines.
- IC Engine Performance.
- Principle of a Refrigeration Plant.
- IC Engine Cooling & Lubrication.

- Rankine cycle of steam.
- Boilers; Classification Specification; Fittings & Accessories.
- Air Compressors & their cycles.
- Properties & Classification of Fluid.
- Refrigeration cycles.
- Nozzles & Steam Turbines.
- Fluid Mechanics & Machinery.
- Production Engineering.
- Fluid Statics.
- Measurement of Fluid Pressure.
- Fluid Kinematics.
- Measurement of Flow rate Basic Principles.
- Hydraulic Turbines.
- Dynamics of ideal fluids.
- Centrifugal Pumps.
- Classification of Steels.

#### **Delhi Metro Civil Syllabus for Maintainer Job**

- The Design of R.C.C. Structure, steel structure, masonry structure.
- Construction.
- Transportation Engineering.
- Hydrology.
- Concrete Technology.
- Engineering Materials.
- Estimation and Coating.
- Structural Analysis.
- The Strength of Materials.
- Irrigation Engineering.
- Surveying.
- Geotechnical Engineering.
- Environmental Engineering.
- Engineering Drawings, etc.
- Construction Equipment, Planning and Management.