

MAHATRANSCO Assistant Engineer Exam Pattern

S.No	Subjects	Total Number of Marks	Time Duration
1.	General Knowledge	100 Marks	2 Hours
2.	Subject Related Questions		

- The examination is conducted for a total of 100 marks.
- Duration of the examination is 2 hours.
- The exam is completely objective i.e consists of Multiple Choice Questions.

MAHATRANSCO Assistant Engineer Syllabus - Topic Wise

Electrical Engineering Syllabus

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

Civil Engineering Syllabus

- Strength Of Materials.
- Building Materials.
- Theory Of Structures.
- Water Supply.
- Concrete Structures.
- Irrigation.
- Sanitary Engineering.
- Estimating, Costing & Contracts.
- Construction.
- Water Requirement Of Crops.
- Field Surveying.
- Flood Control.
- Public Health Engineering.
- Canals.
- Highway Construction.
- Well, Irrigation.
- Hydrology.
- Soil Mechanics & Foundation Engineering.

- Cross Drainage Works.
- Roads & Highways.
- Tubewell Irrigation.
- Head Works.
- Civil Engineering Drawing etc.

Electronics & Telecommunication Syllabus

- Materials and components.
- Electromagnetic Theory.
- Signals and Systems.
- Electronic Measurement and Instrumentation.
- Physical Electronics, Electron Devices, and ICs.
- Control Systems.
- Network Theory.
- Microwave Engineering.
- Analog Electronic Circuits.
- Communication Systems.
- Digital Electronic Circuits.
- Computer Engineering.

General Knowledge Syllabus

- Abbreviations.
- Awards and Honors.
- Science – Inventions & Discoveries.
- Indian Constitution.
- Current Events.
- International & National Organizations.
- Current Affairs – National & International
- Sports & Awards.
- Indian Polity.
- Countries & Capitals.
- Countries & Capitals.
- Books and Authors.