

**Syllabus for the post of**  
**Technician (Civil/Track-Fitter), Vacancy Notice No. 35/2026**  
**Technician (Civil/Track-Mechanic), Vacancy Notice No. 36/2026**

**Domain Knowledge ≈ 70%**

1. Fitting operations
2. Drilling and tapping
3. Bearings, shafts and couplings
4. Lubrication systems
5. Alignment techniques
6. Maintenance practices
7. Assembly and dismantling

**Quantitative Aptitude ≈ 10%**

**Logical Reasoning ≈ 10%**

**General Knowledge & English ≈ 10%**

**Syllabus for the post of**  
**Technician (Civil/Track-Draughtsman)**  
**Vacancy Notice No. 37/2026**

**Domain Knowledge ≈ 70%**

1. Scale and dimensioning
2. Sectional views
3. CAD awareness
4. Mechanical assembly drawings
5. Civil layout drawings
6. Reinforcement details
7. Fabrication drawings

**Quantitative Aptitude ≈ 10%**

**Logical Reasoning ≈ 10%**

**General Knowledge & English ≈ 10%**

**Syllabus for the post of  
Technician (Civil/Track-Surveyor)  
Vacancy Notice No. 38/2026**

**Domain Knowledge ≈ 70%**

1. Chain surveying
2. Levelling
3. Traversing
4. Use of dumpy level and staff
5. Total station awareness & working
6. Alignment and setting out
7. Theodolite & Dumpy level
8. Curves and gradients basics

**Quantitative Aptitude ≈ 10%**

**Logical Reasoning ≈ 10%**

**General Knowledge & English ≈ 10%**

**Syllabus for the post of  
Technician (Civil/Track-Electrician)  
Vacancy Notice No. 39/2026**

**Domain Knowledge ≈ 70%**

1. AC/DC fundamentals
2. Wiring systems
3. Earthing
4. Motors and transformers
5. Electrical testing
6. Cable identification
7. MCB/RCCB basics

**Quantitative Aptitude ≈ 10%**

**Logical Reasoning ≈ 10%**

**General Knowledge & English ≈ 10%**

**Syllabus for the post of  
Technician (Civil/Track-Welder)  
Vacancy Notice No. 40/2026**

**Domain Knowledge ≈ 70%**

1. Arc welding
2. Gas welding
3. Welding joints and positions
4. Electrodes and filler materials
5. Welding defects
6. Weld inspection basics
7. Safety during welding

**Quantitative Aptitude ≈ 10%**

**Logical Reasoning ≈ 10%**

**General Knowledge & English ≈ 10%**

**Syllabus for the post of  
Technician (Civil-Plumber)  
Vacancy Notice No. 41/2026**

**Domain Knowledge ≈ 70%**

1. Types of pipes, fittings, valves (GI, PVC, CPVC, HDPE)
2. Pipe joining methods (threading, soldering, welding, brazing)
3. Water supply system (domestic & industrial)
4. Sanitary fittings & fixtures
5. Drainage and sewerage systems
6. Septic tank & sewage disposal methods
7. Plumbing tools and equipment
8. Pump installation and maintenance
9. Leak detection and repair techniques
10. Pipe layout, alignment & gradient
11. Scale and dimensioning
12. Sectional views
13. CAD awareness
14. Mechanical assembly drawings
15. Civil layout drawings
16. Reinforcement details
17. Fabrication drawings

**Quantitative Aptitude ≈ 10%**

**Logical Reasoning ≈ 10%**

**General Knowledge & English ≈ 10%**

**Syllabus for the post of  
Technician (Civil-Painter)  
Vacancy Notice No. 42/2026**

**Domain Knowledge ≈ 70%**

1. Basic Drawing skills
2. Colour Theory, Design & Art Work
3. Lettering, Sign Writing & Painting
4. Paint Materials & Surface Preparation
5. Carpentry, Wood Working & Furniture Finishing
6. Pipe Fitting, Sheet Metal & Industrial Utility Work
7. Building, Wall & Decorative Painting
8. Basics of Computer Graphics & Digital Painting Technology
9. Spray gun painting operation
10. Paint Defects & Quality Testing and quality checking methods.
11. Safety and Waste control

**Quantitative Aptitude ≈ 10%**

**Logical Reasoning ≈ 10%**

**General Knowledge & English ≈ 10%**

**Syllabus for the post of  
Technician (Electrical)  
Vacancy Notice No. 43/2026**

**Domain Knowledge ≈ 70%**

1. **Electricity Fundamentals:** Ohm's Law and electrical circuits cover series circuits, parallel circuits, combination circuits, Kirchhoff's current law, Kirchhoff's voltage law and heating effect of electric current, Laws of Magnetism and electromagnetism, AC and DC fundamentals.
2. **Electrical Machines:** DC/AC motor, generator, Transformers, Universal stepper motor, Synchronous machines, starter and motor protection.
3. **Electrical Wiring:** Types of wiring, domestic wiring, industrial wiring basics, earthing methods, fuse, MCB, RCCB, ELCB, switches and sockets, cable selection, electrical symbols and load calculation.
4. **Electrical Measuring Equipment:** Electrical measuring instruments include ammeter, voltmeter, wattmeter, energy meter, megger, multimeter, clamp meter and CRO basics.
5. **Power System and Protection:** Basics of Power generation, transmission and distribution, Substations and HV and LV systems, protective devices, relay basics, circuit breakers and isolators.
6. **Basic Electronics:** PN junction diode, Zener diode, transistor, SCR, TRIAC and DIAC. Rectifiers and power supply include half wave rectifier, full wave rectifier, bridge rectifier, filters and voltage regulators. Digital electronics such as binary numbers, logic gates, flip-flops, counters and basics of microprocessor.
7. **Occupational Safety:** PPE, Working at Heights, Earthing.
8. **Maintenance** of electrical circuits, transformers, Distribution boards and Electric substations

**Quantitative Aptitude ≈ 10%**

**Logical Reasoning ≈ 10%**

**General Knowledge & English ≈ 10%**

**Syllabus for the post of  
Technician (Signalling & Telecom)  
Vacancy Notice No. 44/2026**

**Domain Knowledge ≈ 70%**

1. Basics of AC and Electrical Cables
2. Cells & Batteries:
3. Transformers
4. Measuring Instruments:
5. Rectifiers
6. Power Electronics
7. Opto Electronics
8. Digital Electronics
9. Protection devices
10. Communication electronics
11. Sensors, Transducers and Applications
12. Fiber Optic Communication
13. General Railway Signalling and Telecommunication
14. Various types of Signalling and Telecommunication systems used in Railways, Metros and RRTS.
15. Point Machines, Signals, Signalling Cables.
16. Optical fiber communication and its related equipment.
17. Electronics and Electrical Instrumentation.

**Quantitative Aptitude ≈ 10%**

**Logical Reasoning ≈ 10%**

**General Knowledge & English ≈ 10%**

**Syllabus for the post of  
Technician (Rolling Stock - Fitter)  
Vacancy Notice No. 45/2026**

**Domain Knowledge ≈ 70%**

Work experience Domain Knowledge ≈ 50%

1. Facilities, including the M&Ps, and their upkeep/maintenance in modern Depots/ Workshop for Railway/ Metro
2. Modern state-of-the art Depot/ Workshop for Railway/ Metro.
3. Functioning of modern depots for railway/ metro
4. Standards and specifications, statutory compliances, etc. pertaining to Depots/ Workshop for Railway/ Metro.
5. Maintenance practices of Rolling Stock.

Theoretical Domain Knowledge ≈ 20%

1. Safety and its importance.
2. Basic fitting
3. Sheet metal work:
4. Welding
5. Limit, fit, tolerance and interchangeability
6. Turning
7. Basic maintenance, erection and testing of machineries:
8. Metals: metal & non metal
9. Assembling
10. Hydraulics and pneumatics

**Quantitative Aptitude ≈ 10%**

**Logical Reasoning ≈ 10%**

**General Knowledge & English ≈ 10%**

**Syllabus for the post of**  
**Technician (Rolling Stock - Machinist)**  
**Vacancy Notice No. 46/2026**

**Domain Knowledge ≈ 70%**

Work experience Domain Knowledge ≈ 50%

1. Facilities, including the M&Ps, and their upkeep/maintenance in modern Depots/ Workshop for Railway/ Metro
2. Modern state-of-the art Depot/ Workshop for Railway/ Metro.
3. Functioning of modern depots for railway/ metro
4. Standards and specifications, statutory compliances, etc. pertaining to Depots/ Workshop for Railway/ Metro.
5. Maintenance practices of Rolling Stock.

Theoretical Domain Knowledge ≈ 20%

1. General Safety Precaution and First Aid
2. Basic Fitting
3. Gauges
4. Lathe Turning and Advanced Turning
5. Milling Machine
6. Grinding and Tool and Cutter Grinding
7. Computerized Numerical Control (CNC) Lathe
8. CNC Milling (VMC- Vertical Machining Centre)
9. Repair, Overhauling and Slotting
10. Advance Milling and Gears

**Quantitative Aptitude ≈ 10%**

**Logical Reasoning ≈ 10%**

**General Knowledge & English ≈ 10%**

**Syllabus for the post of**  
**Technician (Rolling Stock - Welder)**  
**Vacancy Notice No. 47/2026**

**Domain Knowledge ≈ 70%**

Work experience Domain Knowledge ≈ 50%

1. Facilities, including the M&Ps, and their upkeep/maintenance in modern Depots/ Workshop for Railway/ Metro
2. Modern state-of-the art Depot/ Workshop for Railway/ Metro.
3. Functioning of modern depots for railway/ metro
4. Standards and specifications, statutory compliances, etc. pertaining to Depots/ Workshop for Railway/ Metro.
5. Maintenance practices of Rolling Stock.

Theoretical Domain Knowledge ≈ 20%

1. Introduction and definition of welding
2. Different process of metal joining methods
3. Set the oxygen - acetylene gas cutting plant (OAGC) and oxygen - acetylene welding (OAW)
4. ARC welding power sources
5. ARC welding positions
6. Gas cylinders and regulators
7. SMAW defects
8. ARC welding electrode
9. Testing welded joints by different method of testing
10. Gas tungsten arc welding (GTAW) & gas metal arc welding (GMAW) (CO<sub>2</sub>) welding process

**Quantitative Aptitude ≈ 10%**

**Logical Reasoning ≈ 10%**

**General Knowledge & English ≈ 10%**

**Syllabus for the post of**  
**Technician (Rolling Stock - Electrician)**  
**Vacancy Notice No. 48/2026**

**Domain Knowledge ≈ 70%**

Work experience Domain Knowledge ≈ 50%

1. Facilities, including the M&Ps, and their upkeep/maintenance in modern Depots/ Workshop for Railway/ Metro
2. Modern state-of-the art Depot/ Workshop for Railway/ Metro.
3. Functioning of modern depots for railway/ metro
4. Standards and specifications, statutory compliances, etc. pertaining to Depots/ Workshop for Railway/ Metro.
5. Maintenance practices of Rolling Stock.

Theoretical Domain Knowledge ≈ 20%

1. Safety rules – fundamental of electricity
2. AC circuits – cells and batteries – wiring installation
3. Illumination and electrical measuring instruments
4. Electrical appliances
5. Transformers, DC machines, AC machines, Synchronous machine
6. Electronics, Active and Passive Components, Power Supply Circuits and Transistor
7. Power generation, transmission and distribution
8. Power Electronic Components and Basic Gates, Combinational Circuits, and Flip
9. Fiber Optic Communication, Digital Panel Meter, Solar System
10. Communication Electronics

**Quantitative Aptitude ≈ 10%**

**Logical Reasoning ≈ 10%**

**General Knowledge & English ≈ 10%**

**Syllabus for the post of  
Technician (Rolling Stock - RAC)  
Vacancy Notice No. 49/2026**

**Domain Knowledge ≈ 70%**

Work experience Domain Knowledge ≈ 50%

1. Facilities, including the M&Ps, and their upkeep/maintenance in modern Depots/ Workshop for Railway/ Metro
2. Modern state-of-the art Depot/ Workshop for Railway/ Metro.
3. Functioning of modern depots for railway/ metro
4. Standards and specifications, statutory compliances, etc. pertaining to Depots/ Workshop for Railway/ Metro.
5. Maintenance practices of Rolling Stock.

Theoretical Domain Knowledge ≈ 20%

1. Basic Safety and Refrigeration System
2. Refrigerators and Its Types
3. Compressor, Motor and Refrigerants
4. Condenser, Expansion Valve and Evaporator
5. Air-Conditioner and Its Types
6. Commercial Compressor and Its Types
7. Water Cooled Condenser, Cooling Tower, Evaporator/Chiller and Water Treatment
8. Heat Exchanger, Accumulator, Water Cooler and Deep Freezer
9. Ice Candy Plant, Ice Plant and Cold Storage/Walk In Cooler
10. Direct and Indirect Air Conditioning System, Duct, Air Filter and Control System of AC Plant

**Quantitative Aptitude ≈ 10%**

**Logical Reasoning ≈ 10%**

**General Knowledge & English ≈ 10%**