RRB JE Syllabus 2026 (CEN 04/2026)

RRB JE CEN 04/2026 · Railway Recruitment Boards (RRB) · Railway · All India · 2026

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Overview

Official syllabus and exam pattern for Railway Junior Engineer and Depot Material Superintendent posts under CEN 04/2026: CBT-1 (screening), CBT-2 with a 100-question technical section for the candidate's exam group, then document verification and medical examination.

Important information

Item	Details
Stages	CBT-1 (screening) -> CBT-2 -> document verification -> medical examination
CBT-1	100 questions, 90 minutes: Mathematics 30, Reasoning 25, General Awareness 15, General Science 30
CBT-2	150 questions, 120 minutes: General Awareness 15, Physics & Chemistry 15, Computers 10, Environment 10, Technical Abilities 100
Negative marking	1/3 of the marks for each wrong answer
Minimum marks for eligibility	UR 40%, EWS 40%, OBC (NCL) 30%, SC 30%, ST 25% (relaxable by 2 marks for PwBD if short)
Shortlisting for CBT-2	15 times the community-wise vacancies
Calculator	Virtual calculator on screen in CBT-2
Exam groups	Civil, Electrical, Electronics and Mechanical & Allied Engineering

Exam pattern

Paper / Stage	Subjects	Questions	Marks	Duration
CBT-1 (screening)	Mathematics (30), General Intelligence & Reasoning (25), General Awareness (15), General Science (30)	100	100	90 min
CBT-2	General Awareness (15), Physics & Chemistry (15), Basics of Computers (10), Environment & Pollution Control (10), Technical Abilities (100)	150	150	120 min

Detailed syllabus

1. CBT-1: Mathematics (30 marks)

- Number systems
- BODMAS
- Decimals
- Fractions
- LCM and HCF
- Ratio and Proportion

- Percentages
- Mensuration
- Time and Work
- Time and Distance
- Simple and Compound Interest
- Profit and Loss
- Algebra
- Geometry
- Trigonometry
- Elementary Statistics
- Square Root
- Age Calculations
- Calendar & Clock
- Pipes & Cistern

2. CBT-1: General Intelligence and Reasoning (25 marks)

- Analogies
- Alphabetical and Number Series
- Coding and Decoding
- Mathematical operations
- Relationships
- Syllogism
- Jumbling
- Venn Diagram
- Data Interpretation and Sufficiency
- Conclusions and Decision Making
- Similarities and Differences
- Analytical reasoning
- Classification
- Directions
- Statement – Arguments and Assumptions

3. CBT-1 and CBT-2: General Awareness (15 marks)

- Current affairs
- Indian geography
- Culture and history of India including freedom struggle
- Indian Polity and Constitution
- Indian Economy
- Environmental issues concerning India and the World
- Sports
- General scientific and technological developments

15 questions in each CBT.

4. CBT-1: General Science (30 marks)

- Physics
- Chemistry
- Life Sciences

Up to 10th standard CBSE.

5. CBT-2: Physics and Chemistry (15 marks)

- Physics
- Chemistry

Up to 10th standard CBSE.

6. CBT-2: Basics of Computers and Applications (10 marks)

- Architecture of Computers
- Input and Output devices
- Storage devices
- Networking
- Operating Systems like Windows, Unix, Linux
- MS Office
- Data representation
- Internet and Email
- Websites & Web Browsers
- Computer Virus

7. CBT-2: Basics of Environment and Pollution Control (10 marks)

- Basics of Environment
- Adverse effects of environmental pollution and control strategies
- Air, water and noise pollution — effects and control
- Waste Management
- Global warming
- Acid rain
- Ozone depletion

8. CBT-2 Technical Abilities: Civil & Allied Engineering (100 marks)

- Engineering Mechanics
- Building Construction
- Building materials
- Construction of substructure
- Construction of superstructure
- Building finishes
- Building maintenance
- Building drawing
- Concrete Technology
- Surveying
- Computer Aided Design
- Geo Technical Engineering
- Hydraulics
- Irrigation Engineering
- Mechanics of Structures
- Theory of structures
- Design of Concrete Structures
- Design of Steel Structures
- Transportation Engineering (railway, bridge, tunnel)
- Highway Engineering
- Environmental Engineering

- Advanced Construction Techniques and Equipment
- Estimating and Costing
- Contracts and Accounts

Exam group for civil and allied disciplines. Full topic detail in the notice annexure.

9. CBT-2 Technical Abilities: Electrical & Allied Engineering (100 marks)

- Basic concepts
- Circuit law
- Magnetic Circuit
- AC Fundamentals
- Measurement and measuring instruments
- Electrical Machines
- Synchronous Machines
- Generation, Transmission and Distribution (incl. switchgear and protection)
- Estimation and costing
- Utilization of Electrical Energy
- Basic Electronics

Full topic detail in the notice annexure.

10. CBT-2 Technical Abilities: Electronics & Allied Engineering (100 marks)

- Electronic Components & Materials
- Electronic Devices and circuits
- Digital Electronics
- Linear Integrated Circuit
- Microprocessor and Microcontroller
- Electronic Measurements
- Communication Engineering
- Data communication and Network
- Computer Programming
- Basic Electrical Engineering

Includes computer science / IT disciplines. Full topic detail in the notice annexure.

11. CBT-2 Technical Abilities: Mechanical & Allied Engineering (100 marks)

- Engineering Mechanics
- Material Science
- Strength of Materials
- Machining
- Welding
- Grinding & Finishing Process
- Metrology
- Fluid Mechanics & Hydraulic Machinery
- Industrial Management
- Thermal Engineering

Full topic detail in the notice annexure.

Official sources

Official syllabus: https://rrbsecunderabad.gov.in/wp-content/uploads/2026/08/CEN-04-2026JE_English.pdf

Official website: https://rrbsecunderabad.gov.in

Online version: https://www.jobnirdesh.com/syllabus/rrb-je-syllabus-2026

Always confirm the syllabus with the official notification of the conducting body before you prepare or apply.