

RRB JE Syllabus 2026

Railway Recruitment Board — Railway Recruitment Board — Junior Engineer (Civil, Mechanical, Electrical, S&T;)

Vacancies	Announced periodically for Junior Engineer posts across Civil, Mechanical, Electrical and Signal & Telecommunication disciplines
Age Limit	18–36 years (relaxation per government norms for SC/ST/OBC/PwBD/ex-servicemen)
Qualification	Diploma or Degree in the relevant engineering discipline from a recognised institute (specific requirements vary by post)
Application Fee	■500 (General/OBC/EWS) — ■400 refunded on appearing in CBT 1. SC/ST/PwBD/women/ex-servicemen candidates pay ■250, fully refunded.
Official Website	rrbapply.gov.in
Last Reviewed	2 May 2026

Overview

RRB JE recruits diploma and degree-holding engineers as Junior Engineers across Indian Railways' Civil, Mechanical, Electrical, and Signal & Telecommunication disciplines, responsible for maintenance, construction supervision and technical operations across the rail network. Selection runs through two computer-based tests — CBT 1 is a common screening stage across all disciplines, while CBT 2 includes a discipline-specific technical section that actually decides the final merit — followed by document verification and a medical examination.

What's New in the 2026 Cycle

- CBT 1 is common to all engineering disciplines and posts; CBT 2 introduces a discipline-specific technical section.
- General Awareness and Reasoning carry meaningful weight even in CBT 2, alongside the technical section.
- No separate descriptive/conventional paper, unlike SSC JE — RRB JE is fully objective across both CBT stages.
- Discipline-wise vacancy and cut-off patterns can differ significantly by zone and year.

Exam Pattern

1st Stage CBT (CBT 1) — Common Screening

Mode: Online, objective MCQ | Duration: 90 minutes

Section	Questions	Marks
Mathematics	30	30
General Intelligence & Reasoning	25	25
General Awareness	15	15
General Science	30	30

Negative marking: 1/3rd mark deducted per wrong answer | **Nature:** Screening stage — normalised score used for shortlisting to CBT 2.

2nd Stage CBT (CBT 2) — Merit-Deciding

Mode: Online, objective MCQ | Duration: 120 minutes

Section	Questions	Marks
General Awareness	15	15
Physics & Chemistry	15	15
Basics of Computers & Applications	10	10
Basics of Environment & Pollution Control	10	10
Technical Abilities (discipline-specific)	100	100

Negative marking: 1/3rd mark deducted per wrong answer | **Nature:** Forms the basis of the final merit list.

RRB JE — Detailed Subject-Wise Syllabus

Mathematics (CBT 1)

Common across all disciplines — don't neglect this even as a strong technical candidate, since it gates your CBT 2 shortlist chances.

- Number system
- Algebra
- Geometry & trigonometry
- Mensuration
- Time & work, time & distance
- Ratio & proportion, percentage, profit & loss
- Elementary statistics

General Intelligence & Reasoning (CBT 1)

Standard competitive-exam reasoning — consistent practice yields quick gains.

- Analogies
- Coding-decoding
- Series
- Puzzle & seating arrangement
- Syllogism
- Statement-conclusion
- Data sufficiency

General Awareness (CBT 1 & 2)

Carries real weight in both CBTs — build a steady current-affairs habit rather than treating it as secondary to technical prep.

- Current affairs
- Indian geography, history, polity & economy
- Railway-related general knowledge

General Science (CBT 1) / Physics & Chemistry (CBT 2)

Class 10–12 level fundamentals — a light-touch but consistent revision approach works well.

- Physics, chemistry & biology fundamentals at a Class 10–12 level

Technical Abilities — Civil Engineering (CBT 2)

Mirrors a standard civil diploma/degree curriculum — revise core textbooks, not just MCQ banks.

- Engineering mechanics & strength of materials
- Building materials & construction
- Surveying
- Concrete technology & RCC design
- Soil mechanics & foundations
- Estimating, costing & valuation
- Highway & railway engineering basics

Technical Abilities — Mechanical Engineering (CBT 2)

Thermal engineering and machine design carry consistently heavy weight.

- Engineering mechanics & strength of materials
- Theory of machines & machine design
- Thermal engineering — IC engines, heat transfer
- Fluid mechanics
- Manufacturing processes
- Metrology

Technical Abilities — Electrical Engineering (CBT 2)

Power systems and machines dominate — build strong circuit-theory fundamentals first.

- Basic electrical engineering & circuit theory
- Electrical machines — transformers, motors, generators
- Power systems
- Measurement & instrumentation
- Utilisation of electrical energy

Technical Abilities — Signal & Telecommunication (CBT 2)

Signalling systems and interlocking are railway-specific topics worth extra attention beyond generic electronics study.

- Basic electronics & communication engineering
- Signalling systems & interlocking
- Telecommunication systems
- Digital electronics

Selection Process

- 1 1st Stage CBT (CBT 1) — common screening across all disciplines.
- 2 2nd Stage CBT (CBT 2) — discipline-specific technical section; forms the basis of merit.
- 3 Document Verification, including verification of the specific engineering discipline certificate.
- 4 Medical Examination.

Salary & Job Profile

RRB JE posts are placed in Pay Level 6 (₹35,400 basic) of the 7th CPC matrix, plus Dearness Allowance, HRA, Transport Allowance and railway-specific perks including travel passes.

Best Books for Preparation

- RRB JE Stage I & II — discipline-specific Made Easy/GKP publications
- Lucent's General Knowledge
- Fast Track Objective Arithmetic — Rajesh Verma (Arihant)
- General Science for Competitive Exams — Lucent Publications

Previous Cut-off Trends (Approximate)

RRB JE CBT 1 and CBT 2 cut-offs vary by discipline, zone and category, since technical-section difficulty and vacancy count differ across Civil, Mechanical, Electrical and S&T; posts each cycle. Always check the discipline-wise and zone-wise official cut-off list.

Preparation Tips

- Since CBT 1 is common across disciplines, don't neglect Maths and Reasoning even if you're a strong technical candidate — a weak CBT 1 score limits your CBT 2 shortlist chances.
- For CBT 2, revise your core engineering subjects from standard diploma/degree textbooks rather than relying only on MCQ question banks.
- General Awareness carries real weight in both CBTs — don't treat it as an afterthought relative to technical prep.
- Practise previous years' discipline-specific papers to calibrate the depth and style of technical questions asked.

Exam Day Guidelines

- Carry the Admit Card and a valid original photo ID for both CBT stages.
- Revise your diploma/degree core subjects systematically for the discipline-specific CBT 2 technical section.
- No electronic devices, including calculators, are allowed inside the exam hall.

- Reach the centre early — technical-post exam centres are sometimes fewer and more spread out than general RRB exams.

Frequently Asked Questions

Is the RRB JE syllabus the same for all disciplines?

CBT 1 is common to all disciplines, but CBT 2's Technical Abilities section is specific to your engineering branch — Civil, Mechanical, Electrical or Signal & Telecommunication.

Are RRB JE CBT 1 marks counted in the final result?

No, CBT 1 is a screening stage used to shortlist candidates for CBT 2 — the final merit list is based on CBT 2 marks.

Is there a descriptive paper in RRB JE, like SSC JE?

No, RRB JE is fully objective (MCQ-based) across both CBT stages, unlike SSC JE which includes a descriptive Paper II.

Is there negative marking in RRB JE?

Yes, 1/3rd of the marks allotted to a question is deducted for every wrong answer, in both CBT 1 and CBT 2.

Compiled and reviewed by Syllabus Hub against the official Railway Recruitment Board notification as of 2 May 2026. Exam patterns, vacancies and dates are subject to change — always cross-check with the official notification at rrbapply.gov.in before applying. © 2026 Syllabus Hub.