

RRB Technician Syllabus and Exam Pattern 2025

The RRB Technician Exam 2025 includes subjects like Mathematics, General Intelligence & Reasoning, General Science, and General Awareness. The exam is conducted in multiple stages, CBT 1, CBT 2 (for certain posts), and Document Verification. Below are the key details about the RRB Technician Syllabus and Exam Pattern.

Particulars	Details
Recruiting Authority	Railway Recruitment Board (RRB)
Exam Name	RRB Technician Exam 2025 (CEN No. 02/2025)
Post Offered	Technician Grade 1 Signal & Technician Grade 3
Total Vacancies	6238
Exam Category	Syllabus and Exam Pattern
Mode of Examination	Computer-Based Test (CBT)
Marking Pattern	1 mark for each correct answer

Negative Marking	1/3 marks deducted for each wrong answer
Stages of Selection	Computer-based Test, Document Verification, Medical Examination
Official Website	www.rrbcdg.gov.in



RRB Technician Selection Process

The RRB Technician Selection Process for 2025 is slightly different from that of the Assistant Loco Pilot (ALP) recruitment. While both are technical posts, the Technician recruitment process follows a simpler format. Candidates applying for Technician Grade 1 Signal and Technician Grade 3 posts will have to go through three main stages to qualify for final selection. Notably, there is no Computer-Based Aptitude Test for Technician posts.

Here are the stages of the RRB Technician Selection Process:

- Computer-Based Test (CBT)
- Document Verification
- Medical Examination

RRB Technician Exam Pattern 2025

Candidates appearing for the RRB Technician Recruitment must be familiar with the RRB Technician syllabus as well as the exam pattern for each stage of the selection process. By knowing the candidates can understand the type of questions, topic-wise weightage and marking scheme. This will help candidates develop an effective preparation strategy to score better. The RRB Technician Exam pattern for all stages has been explained in the following sections.

RRB Technician Exam Pattern for Technician Gr I Signal

The RRB Technician CBT exam will be conducted for RRB Technician posts. There will be separate CBT for each post of Technician Grade-III & Technician Grade-I Signal. It will be an objective-type test. The detailed exam pattern for each post is given below.

RRB Technician Exam Pattern for Technician GR I Signal

Subjects	No. of Questions	Maximum Marks	Duration
General Awareness	10	10	90 Minutes (extra 30 mins for PwBD Candidates)
General Intelligence and Reasoning	15	15	
Basics of Computers and Applications	20	20	
Mathematics	20	20	
Basic Science and Engineering	35	35	
Total	100	100	90 Minutes

- The RRB Technician Exam 2025 will be conducted in Computer-Based Test (CBT) mode.
- The paper will consist of objective-type multiple-choice questions.
- A total of 100 questions will be asked, carrying 100 marks in total.

- Each incorrect answer will lead to a deduction of 1/3rd of the total marks assigned to that question.
- No negative marking will be applied for unanswered or blank questions.
- Candidates should attempt questions carefully to avoid losing marks due to negative marking.

RRB Technician Exam Pattern for Technician Gr III

The RRB Technician Exam Pattern for Technician Grade III posts has been designed to assess candidates through a Computer-Based Test (CBT). Understanding the exam pattern is essential to plan your preparation effectively and meet the qualifying standards. The exam includes multiple-choice questions and follows a negative marking system. Below are the key details:

RRB Technician Grade III Exam Pattern			
Subjects	No. of Questions	Maximum Marks	Duration
General Awareness	10	10	90 Minutes
General Intelligence and Reasoning	25	25	

Mathematics	25	25	
General Science	40	40	
Total	100	100	90 Minutes

- The exam will be conducted in CBT mode.
- The paper will include objective-type multiple-choice questions.
- For every incorrect answer, 1/3rd of the marks assigned to that question will be deducted.
- Minimum qualifying marks are:
 - UR & EWS: 40%
 - OBC (NCL) & SC: 30%
 - ST: 25%

Document Verification (DV)

Candidates will be shortlisted for Document Verification based on their marks and merit in the CBT for the respective Pay Levels. The Appointment of selected candidates is subject to their passing the requisite Medical Fitness Test to be conducted by the Railway Administration and final verification of all essential

documents and verification of antecedents / character of the candidates.

Calculate tentative marks with the [RRB Technician Answer Key](#) here!

RRB Technician Syllabus 2025

Listed below is the RRB Technician Syllabus as the official syllabus for this year has been released. Usually the syllabus does not change much over the years but the candidates must also check the official syllabus for 2025 as it is published.

RRB Technician Syllabus for Technician Gr I Signal

Candidates applying for the Technician Grade I Signal post must prepare thoroughly across five major subjects: General Awareness, General Intelligence & Reasoning, Basics of Computers and Applications, Mathematics, and Basic Science & Engineering. The CBT exam will consist of 100 objective-type questions. The syllabus is designed to test both foundational knowledge and practical understanding. Here's the detailed subject-wise syllabus:

Subjects	Topics
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General Awareness	<ul style="list-style-type: none"> ◦ Knowledge of Current Affairs ◦ Indian Geography ◦ Culture and History including Freedom Struggle ◦ Indian Polity and Constitution ◦ Indian Economy ◦ Environmental Issues Concerning India and the World ◦ Sports ◦ General Scientific and Technological Developments
Basic Science and Engineering	Physics Fundamentals <ul style="list-style-type: none"> ◦ Units and Measurements

- Mass, Weight, and Density
- Work, Power, and Energy
- Speed and Velocity
- Heat and Temperature

Electricity and Magnetism

- Electric Charge, Field, and Intensity
- Electric Potential and Potential Difference
- Simple Electric Circuits
- Conductors and Insulators
- Ohm's Law and its Limitations

- Resistance in Series and Parallel
- Specific Resistance
- Relation between Electric Potential, Energy, and Power
- Ampere's Law
- Magnetic Force on Moving Charges
- Electromagnetic Induction and Faraday's Law
- Magnetic Field and Magnetic Induction

Electronics and Measurements

- Basic Electronics

	<ul style="list-style-type: none"> ◦ Digital Electronics ◦ Electronic Devices and Circuits ◦ Microcontroller and Microprocessor ◦ Electronic Measurements and Measuring Systems ◦ Range Extension Methods ◦ CRO (Cathode Ray Oscilloscope) ◦ LCD and LED Panels ◦ Transducers
Basic of Computers and Applications	<ul style="list-style-type: none"> ◦ Architecture of Computers

	<ul style="list-style-type: none"> ◦ Input and Output Devices ◦ Storage Devices ◦ Networking ◦ Operating Systems (Windows, Unix, Linux) ◦ MS Office ◦ Data Representation ◦ Internet and Email ◦ Websites and Web Browsers ◦ Computer Virus
Mathematics	<ul style="list-style-type: none"> ◦ Number System

- Rational and Irrational Numbers
- BODMAS Rule
- Quadratic Equations
- Arithmetic Progression
- Similar Triangles
- Pythagoras Theorem
- Coordinate Geometry
- Trigonometrical Ratios
- Heights and Distances
- Surface Area and Volume

General Intelligence & Reasoning

- Analogies
- Alphabetical and Number Series
- Coding and Decoding
- Mathematical Operations
- Relationships
- Syllogism
- Jumbling
- Venn Diagrams
- Data Interpretation and Sufficiency

	<ul style="list-style-type: none"> ◦ Conclusions and Decision Making ◦ Similarities and Differences ◦ Analytical Reasoning ◦ Classification ◦ Directions ◦ Statement–Arguments and Assumptions
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RRB Technician Syllabus for Technician Gr III

The RRB Technician Grade III syllabus is designed to test a candidate's basic conceptual knowledge and logical thinking. The Computer-Based Test (CBT) will consist of 100 objective-type questions covering Mathematics, Reasoning, Basic Science, and Current Affairs. Each section carries equal importance, so candidates must prepare all topics strategically. Below is the subject-wise syllabus in a clean table format:

Subjects	Topics
Mathematics	<ul style="list-style-type: none"> • Number System • BODMAS Rule • Decimals and Fractions • LCM & HCF • Ratio and Proportion • Percentages • Mensuration • Time and Work • Time and Distance • Simple and Compound Interest • Profit and Loss • Algebra • Geometry and Trigonometry • Elementary Statistics • Square Root • Age Calculations • Calendar & Clock

	<ul style="list-style-type: none"> • Pipes and Cistern
General Intelligence & Reasoning	<ul style="list-style-type: none"> • 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

Basic Science	<ul style="list-style-type: none"> • Units and Measurements • Mass, Weight, and Density • Work, Power, and Energy • Speed and Velocity • Heat and Temperature • Basic Electricity • Levers and Simple Machines • Workplace Safety and Occupational Health • Environmental Education • Basic IT Literacy
General Awareness on Current Affairs	<ul style="list-style-type: none"> • Science and Technology • Sports • Indian Art and Culture • Famous Personalities • Economic Affairs • Political Developments • Other Important National and International Events

RRB Technician Minimum Qualifying Marks

The Railway Recruitment Board (RRB) sets **minimum qualifying marks** that candidates must secure to be considered for further stages. These marks are category-specific—typically 40% for General/UR, 30% for SC/ST, and 35% for OBC candidates. However, these cut-offs may vary slightly depending on the year, number of vacancies, and exam difficulty. Meeting these minimum marks is crucial, but scoring higher increases your chances of selection in merit-based shortlisting.