

Assistant Loco – Pilot

1. CBT 1: Screening Test Syllabus

This stage is a qualifying round.

a. Mathematics

- Number System
- Decimals and Fractions
- Percentages
- Ratio and Proportion
- Time and Work
- Time, Speed, and Distance
- Simple and Compound Interest
- Profit and Loss
- Mensuration (Area, Volume)
- Algebra
- Geometry and Trigonometry

b. General Intelligence & Reasoning

- Analogies
- Coding-Decoding
- Blood Relations
- Syllogism
- Decision Making
- Direction Sense
- Puzzles
- Data Interpretation
- Statement-Conclusion
- Logical Reasoning

c. General Science

- Physics, Chemistry, and Life Sciences (up to 10th standard level).

d. General Awareness & Current Affairs

- Indian Railways Updates
 - Sports
 - Politics and Economy
 - Culture
 - Science and Technology
 - Recent National and International Events
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2. CBT 2: Advanced Test Syllabus

This stage has **Part A** and **Part B**.

Part A: General Topics

1. **Mathematics**
 - Same as CBT 1.
2. **General Intelligence & Reasoning**
 - Same as CBT 1.
3. **Basic Science & Engineering**
 - Engineering Drawing (Basics)
 - Units and Measurements
 - Work, Power, and Energy
 - Speed and Velocity
 - Laws of Motion
 - Current and Resistance
 - Conductors and Insulators
 - Thermodynamics
 - Heat and Temperature
 - Basic Engineering Materials

4. General Awareness

- Same as CBT 1, with an emphasis on Indian Railways-related knowledge.

Part B: Trade-Specific Syllabus

- Questions are based on the candidate's trade or field of study (as per ITI/Diploma qualification). Below are some trade examples:

1. Electrical Trade

- Basics of Electricity
- DC/AC Circuits
- Transformers
- Motors and Generators
- Power Systems
- Electrical Measurements

2. Mechanical Trade

- Thermodynamics
- Workshop Technology
- Strength of Materials
- Fluid Mechanics
- IC Engines

3. Electronics Trade

- Digital Electronics
- Communication Systems
- Microprocessors
- Semiconductors

4. Automobile Trade

- Transmission Systems
- Engine Systems
- Braking Systems
- Fuel Systems

3. Computer-Based Aptitude Test (CBAT) (*if applicable*)

This stage focuses on psychological and cognitive abilities for Loco Pilot posts.

Topics Assessed:

- Memory Test
 - Spatial Scanning
 - Concentration Test
 - Perceptual Speed
 - Following Directions
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4. Document Verification & Medical Standards

- No syllabus but ensure to meet the vision and physical requirements for A-1 medical fitness.