

Railway Technician Syllabus**First Stage CBT (Common for ALP/Technician)**

The Questions will be of objective type with multiple choices and are likely to include questions pertaining to:

Mathematics

- Number system,
- BODMAS, Decimals,
- 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, Pipes & Cistern etc

General Intelligence and Reasoning

- 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 etc

General Science

The syllabus under this shall cover Physics, Chemistry and Life Sciences of 10th standard level.

General awareness on current affairs

Science & Technology, Sports, Culture, Personalities, Economics, Politics and other subjects of importance

Second Stage CBT

Those who successfully qualify First Stage CBT then will have to appear for Second Stage CBT. Total Duration of exam will be 2 hours and 30 Minutes. The Second Stage CBT shall have two parts that is Part A and Part B as detailed below

PART A**Mathematics**

- Number system, BODMAS, Decimals,
- 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, Pipes & Cistern etc.

General Intelligence and Reasoning

- 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 etc

Basic Science and Engineering

- Engineering Drawing (Projections, Views, Drawing Instruments, Lines, Geometric figures, Symbolic Representation),
- Units, Measurements, Mass Weight and Density, Work Power and Energy, Speed and Velocity, Heat and Temperature,
- Basic Electricity, Levers and Simple Machines, Occupational Safety and Health, Environment Education, IT Literacy etc

General Awareness on Current Affairs

Science & Technology, Sports, Culture, Personalities, Economics, Politics and any other subjects of importance

PART B

The relevant trades for various engineering discipline/HSC (10+2) for appearing in the qualifying test is as below:

Engineering Discipline(Diploma/Degree)	Relevant trade for PART B Qualifying Test to be selected from
Electrical Engineering and combination of various streams of Electrical Engineering	Electrician / Instrument Mechanic / Wiremen /Winder(Armature) / Refrigeration and Air Conditioning Mechanic
Electronics Engineering and combination of various streams of Electronics Engineering	Electronics Mechanic / Mechanic Radio & TV
Mechanical Engineering and combination of various streams of Mechanical Engineering	Fitter / Mechanic Motor Vehicle / Tractor Mechanic / Mechanic Diesel / Turner / Machinist / Refrigeration and Air Conditioning Mechanic/ Heat Engine / Millwright Maintenance Mechanic
Automobile Engineering and combination of various streams of Automobile Engineering	Mechanic Motor Vehicle / Tractor Mechanic / Mechanic Diesel / Heat Engine / Refrigeration and Air Conditioning Mechanic

HSC(10+2) with Physics and Maths

Electrician / Electronics Mechanic / Wireman

