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INSTITUTE
WHERE EDUCATION EMBRACES SUCCESS !!

Syllabus For RRB-ALP & TECHNICIAN

Coaching Provided for:-

- CBSE/ICSE(Std:VI-XII), +2 Science(Int.)
- Spoken English (GD/PI)
- Banking(PO/Clerical), Pre-Placement Training(PPT)
- SSC (Technical/Non-Technical)
- Railway (Technical/Non-Technical)
- B.Ed. /CT/ OTET/ OSSTET/ CTET (Entrance)
- B.Ed./BPED (Under ACHARYA NAGARJUNA & ANDHRA UNIVERSITY)
- Defence Entrance Exam.

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Recruitment of Assistant Loco Pilot (ALP) & Technicians

RRB Educational Qualification

Department	Educational Qualification
RRB Assistant Loco Pilot Educational Qualifications	
Mechanical	10 th Pass (matriculation) / SSLC and ITI in the trades of Armature and Coil Winder / Electrician / Electronics Mechanic / Fitter / Heat Engine / Instrument Mechanic / Machinist / Mechanic Diesel / Mechanic Motor Vehicle / Millwright Maintenance Mechanic / Mechanic Radio & TV / Refrigeration and Air-conditioning Mechanic / Tractor Mechanic / Turner / Wireman (OR)
Electrical	Matriculation(10 th Pass) / SSLC and Course Completed Act Apprenticeship in the trades mentioned above(OR) 3 years Diploma in Mechanical / Electrical / Electronics / Automobile Engineering/ (OR) Degree in Engineering in Mechanical / Electrical / Electronics / Automobile Engineering or Combination of various streams of these Engineering disciplines
RRB Technician Educational Qualifications	
SIGNAL	Matriculation / SSLC plus ITI in the trades of Electrician / Electronics Mechanic/ Wireman (OR)
TELECOMMUNICATION	Matriculation / SSLC plus Course Completed Act Apprenticeship in the trades mentioned above (OR) 10+2 with Physics and Maths
BLACKSMITH	Matriculation / SSLC plus ITI in the trade of Forger and Heat Treater (OR) Matriculation / SSLC plus Course Completed Act Apprenticeship in the trade mentioned above .
BRIDGE	Matriculation / SSLC plus ITI in the trades of Fitter / Fitter (Structural) / Welder (OR) Matriculation / SSLC plus Course Completed Act Apprenticeship in above trades
DIESEL ELECTRICAL	Matriculation / SSLC plus ITI in the trades of Electrician / Mechanic Auto electrical and Electronics / Wireman/ Electronics Mechanic / Mechanic Power Electronics (OR) Matriculation / SSLC plus Course Completed Act Apprenticeship in above trades
DIESEL MECHANICAL	Matriculation / SSLC plus ITI in the trades of Fitter /Mechanic Diesel / Mechanic (Repair and Maintenance of Heavy Vehicles) /Mechanic Automobile (Advanced Diesel Engine) / Mechanic Motor Vehicle / Tractor Mechanic / Welder / Painter (OR) Matriculation / SSLC plus Course Completed Act Apprenticeship in above trades
ELECTRICAL	Matriculation / SSLC plus ITI in the trades of Electrician/ Wireman / Electronics Mechanic / Mechanic Power Electronics / Mechanic Mechatronics (OR) Matriculation / SSLC plus Course Completed Act Apprenticeship in above trades
ELECTRICAL / POWER	Matriculation / SSLC plus ITI in the trades of Electrician / Wireman / Mechanic HT, LT Equipments and Cable Jointing / Electronics Mechanic. (OR) Matriculation / SSLC plus Course Completed Act Apprenticeship in above trades
ELECTRICAL / TRAIN LIGHTING	Matriculation / SSLC plus ITI in the trades of Electrician / Wireman / Mechanic HT, LT Equipments and Cable Jointing / Electronics
ELECTRICAL / TRD	Mechanic (OR) Matriculation / SSLC plus Course Completed Act Apprenticeship in above trades
ELECTRICAL / TRS	Matriculation / SSLC plus ITI in the trades of Electrician/ Wireman / Electronics Mechanic / Mechanic Power Electronics / Mechanic
EMU	HT, LT Equipments and Cable Jointing / Fitter / Welder / Painter General /Machinist / Carpenter (OR) Matriculation / SSLC plus Course Completed Act Apprenticeship in above trades
FITTER	Matriculation / SSLC plus ITI in the trade of Fitter (OR) Matriculation / SSLC plus Course Completed Act Apprenticeship in above trades
MACHINIST	Matriculation / SSLC plus ITI in the trades of Machinist / Turner / Machinist (Grinder) (OR) Matriculation / SSLC plus Course Completed Act Apprenticeship in above trades
MECHANICAL	Matriculation / SSLC plus ITI in the trades of Fitter / Welder / Machinist / Machinist (Grinder) / Mechanic/Mechatronics / Turner / Operator Advanced Machine Tools / CNC Programmer cum Operator (OR) Matriculation / SSLC plus Course Completed Act Apprenticeship in above trades
MOTOR VEHICLE DRIVER CUM MECHANIC	Matriculation / SSLC plus ITI in the trades of Mechanic Motor Vehicle / Driver cum Fitter / Driver cum Mechanic (Light Motor Vehicle) (OR) Matriculation / SSLC plus Course Completed Act Apprenticeship in above trades (AND) Should possess a valid Driving License for driving Light Duty and Heavy duty Vehicles.
MULTI SKILLED FITTER	Matriculation / SSLC plus ITI in the trades of Fitter /Welder / Machinist (OR) Matriculation / SSLC plus Course Completed Act Apprenticeship in above trades
PERMENANT WAY	Matriculation / SSLC plus ITI in the trades of Fitter / Welder / Machinist / Machinist (Grinder) (OR) Matriculation / SSLC plus Course Completed Act Apprenticeship in above trades
REFRIGERATION and AIR CONDITIONING	Matriculation / SSLC plus ITI in the trades of Refrigeration and Air Conditioning Mechanic /Electrician / Wireman / Electronics Mechanic (OR) Matriculation / SSLC plus Course Completed Act Apprenticeship in above trades
REMOTE CONTROL	Matriculation / SSLC plus ITI in the trades of Electrician / Wireman / Mechanic HT, LT Equipments and Cable Jointing / Electronics Mechanic (OR) Matriculation / SSLC plus Course Completed Act Apprenticeship in above trades
S and T / LINE MAN	Matriculation / SSLC plus ITI in the trades of Electrician / Wireman (OR) Matriculation / SSLC plus Course Completed Act Apprenticeship in above trades
SHEET METAL WORKER	Matriculation / SSLC plus ITI in the trades of Sheet Metal Worker (OR) Matriculation / SSLC plus Course Completed Act Apprenticeship in above trades
SHELL	Matriculation / SSLC plus ITI in the trades of Fitter /Welder (OR) Matriculation / SSLC plus Course Completed Act Apprenticeship in above trades
TRACK MACHINE	Matriculation / SSLC plus ITI in the trades of Fitter /Electrician / Electronics Mechanic / Instrument Mechanic/ Mechanic Mechatronics /Mechanic Diesel/ Mechanic Motor Vehicle/ Welder/ Machinist (OR) Matriculation / SSLC plus Course Completed Act Apprenticeship in above trades
TURNER	Matriculation / SSLC plus ITI in the trade of Turner (OR) Matriculation / SSLC plus Course Completed Act Apprenticeship in the trade mentioned above.
WELDER	Matriculation / SSLC plus ITI in the trades of Welder /Welder (Gas and Electric) / Gas Cutter / Structural Welder / Welder (Pipe) / Welder (TIG/MIG) (OR) Matriculation / SSLC plus Course Completed Act Apprenticeship in above trades

NATIONALITY/CITIZENSHIP:(i)A candidate must be either:

- a. a citizen of India, or b. a subject of Nepal, or c. a subject of Bhutan, or
- d. a Tibetan refugee who came over to India, before the 1st January, 1962 with the intention of permanently settling in India, or
- e. a person of Indian origin who has migrated from Pakistan, Burma, Sri Lanka, East African Countries of Kenya, Uganda, the United Republic of Tanzania, Zambia, Malawi, Zaire, Ethiopia and Vietnam with the intention of permanently settling in India.
- f. Provided that a candidate belonging to categories (b), (c), (d) and (e) above shall be a person in whose favor a certificate of eligibility has been issued by the Government of India.

AGE LIMIT:- Minimum 18 Years Maximum 28 Years.

The lower and upper age limit is common for all the notified posts and the same shall be reckoned as on Exam notification.

The age relaxation in RRB ALP Technician Recruitment is for OBC, SC/ST and PWD candidates which is mentioned below.

Category	Age relaxation (in yrs)	
OBC	3	
SC/ST	5	
P	General	10
W	OBC	13
D	SC/ST	15

Below mentioned are the date of births (lower and upper) for Unreserved (General), SC/ST, OBC. Both mentioned dates are inclusive.

Category	Upper Limit of Date of Birth(not earlier than)	Lower Limit of Date of Birth (not earlier than)
Unreserved (General)	Exam notification	Exam notification
OBC (Non Creamy Layers)	Exam notification	
SC/ST	Exam notification	

Exam Pattern of RRB ALP & Technician

Post	Exam	Time	No. of Questions
Assistant Loco Pilot	First Stage CBT(Computer Based Test)	60 Min.	75
	Second Stage CBT - Part A	90 Min.	100
	Second Stage CBT - Part B	60 Min.	75
	Computer-Based Aptitude Test	-	-
Technician	First Stage CBT	60 Min.	75
	Second Stage CBT - Part A	90 Min.	100
	Second Stage CBT - Part B	60 Min.	75

Exam	Subjects
CBT Stage 1	Mathematics
	Reasoning
	General Science
	GK/Current Affairs
CBT Stage 2 – Part A	Mathematics
	Reasoning
	General Science
CBT Stage 2 – Part B	GK/Current Affairs
	Trade Syllabus

Detailed Syllabus of Prelims (Stage 1) of RRB ALP & Technician

1.Mathematics	2.Reasoning	4.GK/Current Affairs
Number system	Analogy	Related to
BODMAS	Alphabetical & Num. Series	Science &
HCF,LCM	Mathematical Operation	Technology
Ratio & Proportion	Coding & Decoding	Sports
Percentages	Syllogism	Culture
Time & Work	Blood Relation	Personalities
Age Calculation	Venn Diagram	Economics
Time & Distance	Data Interpretation	Polity
SI & CI	Conclusion & Decision Making	Miscellaneous
Profit & Loss	Analytical Reasoning	
Algebra	Statement - Argument, Assumption	
Geometry	Classification	
Mensuration	Similarities & Differences	
Trigonometry	3.General Science	
Statistics (Basic)	(10th Level)	
Square Root	Physics	
Clock & Calendar	Chemistry	
Pipes & Cistern	Life Science	

Detailed Syllabus of Mains (Stage 2: Part A) of RRB ALP & Technician

Except for Basic Science & Engineering, syllabus of Prelims and Mains is same for RRB Railway ALP & Technician

Basic Science & Engineering

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|-------------------------------------|------------------------------------|--|
| 1.Engineering Drawing – Projections | 2.Eng. Drawing – Views | 3.Eng. Drawing - Instruments |
| 4.Eng. Drawing – Lines | 5.Eng. Drawing - Geometric Figures | 6.Eng. Drawing - Symbolic Representation |
| 7.Heat & Temperature | 8.Lever & Simple Machines | 9.Environment Education |
| 10.Speed & Velocity | 11.Work Power & Energy | 12.Basic Electricity |
| 13.Occupational Safety & Health | 14.Mass Weight & Density | 15.IT Literacy |
| 16.Measurements | 17.Units | Etc.... |

Detailed Syllabus of Mains (Stage 2: Part B) of RRB ALP & Technician

Stage 2 - Part B of RRB ALP & Technician exam is qualifying in nature. The syllabus of Part B of RRB Mains exam includes trade syllabus prescribed by Director General of Employment & Training (DGET).

SI No	Engineering Discipline(Diploma/Degree)	Relevant trade for PART B Qualifying Test to be selected from
1	Electrical Engineering and combination of various streams of Electrical Engineering	Electrician / Instrument Mechanic / Wiremen /Winder(Armature)/ Refrigeration and Air Conditioning Mechanic
2	Electronics Engineering and combination of various streams of Electronics Engineering	Electronics Mechanic / Mechanic Radio & TV
3	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
4	Automobile Engineering and combination of various streams of Automobile Engineering	Mechanic Motor Vehicle / Tractor Mechanic / Mechanic Diesel / Heat Engine /Refrigeration and Air Conditioning Mechanic
5	HSC(10+2) with Physics and Maths	Electrician / Electronics Mechanic / Wireman

(+2 Science Candidates only Apply for Technician Posts 1. Signal & 2. Telecommunication)

Computer Based Aptitude Test (Only for candidates who have opted for ALP)

Qualifying marks: The candidate needs to secure a minimum score of 42 marks in each of the test batteries to qualify. This is applicable to all candidates and no relaxation is permissible.

Candidates equal to 8 times number of ALP vacancies for each of the communities i.e. UR, OBC-NCL, SC and ST (including ExSM) shall be short listed for Computer Based AT (based on their performance in Part A of the Second Stage CBT subject to their qualifying the Part B of Second Stage CBT) from among the candidates who have opted for the post of ALP. Such shortlisted candidates should produce the Vision Certificate in the prescribed format as per Annexure - VI in original during Computer Based AT, failing which they will not be permitted to appear in the Computer Based AT.

Candidates will have to qualify in each of the test battery of Computer Based AT for considering them for the post of ALP. The Computer Based Aptitude Test shall have questions and answer options only in English and Hindi. There shall be no negative marking in Computer Based AT.

The ALP merit list will be drawn only from amongst the candidates qualifying in the Aptitude Test, with 70% weightage for the marks obtained in the Part A of Second Stage CBT and 30% weightage for the marks obtained in Computer Based AT.

Candidates are advised to visit websites of RDSO (www.rdsso.indianrailways.gov.in -> Directorates -> Psycho Technical Directorate -> Candidates Corner) for question patterns and other details of AT.

ALL THE BEST

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