

NORTH CENTRAL RAILWAY

Headquarters Office,
Prayagraj-211015.

No.797-E/Gaz/Gr. 'B' Sele./CBT-Spl./Mech./70%/NCR

Dated: 12.01.2024.

Principal Chief Mechanical Engineer,

CRSE/Freight, CRSE/Coaching, CWE, CMPE/DSL, CME/Plg., GM/CORE/PRYJ, SDGM, CAO/Const., FA&CAO/EG, CWMs: JHS & STLI Workshop, CWM/RCNK/JHS, CWM/Refub/CMLRW/JHS, DRMs: PRYJ, AGC & JHS, Dy. CMEs, Sr. DMEs, Sr. DPOs, Sr. DSOs, Sr. EDPMs: HQrs., PRYJ, AGC & JHS, Dy. CPO/Cost & IR/PRYJ, Dy. CPO/HQ, IR, Dy. CME/W/JHS, Dy. CME/MLR/JHS, SPOs: JHS Workshop, Principal, STC/JHS, Director/CAMTECH/GWL, Dy. GM(G)/ NCR/PRYJ, Chairman/RRB & RRC/PRYJ, SMEs, DMEs, WMs, PE, CDOs: HQ, PRYJ, AGC, JHS, CMLRW/JHS & Workshop/JHS, AMEs, ADMEs, AWMs, APOs: HQ, PRYJ, AGC, JHS, CMLRW/JHS & Workshop/JHS.

NOTIFICATION

Sub: Selection for promotion from Group 'C' to Group 'B' to the post of AME / ADME / AWM against 70% PQ selection for Mechanical Department in Pay Matrix Level-8, through Centralized Computer Based Objective Type Examination (CBT) - Special drive to fill up vacancies.

Ref: Railway Board's letter No. E(GP)2022/2/4 dated 14.12.2023.

1. In reference to above, Board has decided that a special Group 'B' selection drive shall be carried out to fill up the Gazetted vacancies prevailing on the Railways. Accordingly, it has been decided to fill up these vacancies by holding another round of 70% PQ Selection and 30% LDCE through centralized CBT for promotion to Group 'B' posts by NAIR. Examination (CBT) against 70% PQ selection to be conducted on 25.02.2024 by NAIR/BRC. There shall be no supplementary examination for this special 70% PQ selection.

The break-up of vacancies assessed for the Group 'B' post of AME / ADME / AWM against 70% PQ selection for Mechanical Department are as under:-

Mode	UR	SC	ST	Total	Vacancy reserved for PwBD
70% PQ selection	02	01	01	04	01

Instructions regarding reservation with benchmark disabilities (PwBDs) issued by DoPT vide their OM No. 36012/1/2020-Estt.(Res.-II) dated 17.05.2022, circulated by Railway Board vide letter No. E(GP)2022/2/20 dated 18.08.2022 is being followed in the selections/LDCEs.


12/1/24

2. Eligibility:-

In terms of Railway Board's letter No. E(GP)2019/2/25 dated 27.12.2019, (RBE No. 216/2019), for Group 'B' selections (70% quota), Group 'C' employees working in Level-6 and above in Pay Matrix with 3 years of non-fortuitous service in Level-6 and above in Pay Matrix (including non-fortuitous service rendered in the corresponding pre-revised grade pay) will be eligible. The cut-off date for assessment of eligibility of candidates of this extra round of examination shall be retained as 01.01.2023.

The above is strictly based on integrated seniority list enclosed herewith as Annexure 'A' (Main List) & Annexure 'B' (Reserved List).

A provisional integrated seniority list of eligible employees of Mechanical Department of this Railway, who are eligible to appear in the selection is enclosed as Annexure 'A' (Main List) and as Annexure 'B' (Reserved List). The employees in the Reserved List (Annexure 'B') may please note that they will be considered only to the extent of number of employees from the main list, who expressed unwillingness to attend the selection.

Eligible and willing employees (Annexure 'A' & 'B') must submit their application in prescribed Proforma in Annexure-'C' duly forwarded by immediate supervisor/Officer through proper channel to their respective Personnel Branch Officers concerned indicating their clear willingness / unwillingness to appear in the selection on or before 17.01.2024 and acknowledgement may be obtained. Applications received after 17.01.2024 should not be entertained and summarily rejected. If no application is received by any of the Office/Unit concerned, a certificate should be given to the Personnel Department of HQ/Division/Workshop/Unit concerned that no application has been received in their office.

3. Scrutiny:

The Controlling officers/respective Personnel officers are advised to verify details of the employees of Annexure 'A' & 'B' submitted by them in Annexure 'C' with their clear willingness / unwillingness and certify their correctness while forwarding them to this office. The consolidated statement in respect of such candidates as per the format in Annexure-'D' (in hard copy as well as in soft copy, in excel sheet) together with the individual applications, should be forwarded by the concerned Controlling officers/respective Personnel Officer to Gazetted Section, PCPO's Office/NCR/HQ on or before 19.01.2024.

In case a candidate is found ineligible for the above selection at any stage, his/her candidature will be summarily rejected. The application of the candidates working over head quarter should be submitted through APO/HQ/NCR/PRYJ and candidates working under Construction Organization should be submitted through Dy.CPO/Const./NCR/HQ/PRYJ.

It may be noted that those employees in the main list and reserved list who fail to express their Willingness / Unwillingness on or before 17.01.2024 will be presumed to be Unwilling to take part in the selection and subsequent claim, if any, in this regard will not be entertained under any circumstances.

It is not necessary that all the employees appearing in Annexure 'A' & 'B' from whom Willingness / Unwillingness and twice failed position has been sought will be eligible to be



called in the selection. It will totally depend on their position in the final integrated seniority list because employees will be called in the selection as per the sliding scale keeping in view the vacancies available. The final eligible list will be issued keeping in view the willingness/unwillingness and twice failed position given by the employees.

4. Pre-Selection Training to SC & ST employees:

The SC & ST candidates shown in Annexure-'A' & 'B' are required to be given pre-selection coaching / training to be organised by the concerned department as per extant instruction contained in Railway Board's letter No. E(GP)2010/2/39 dated 28.08.2019 (RBE No. 142/2019). It is not necessary that all SC & ST candidates shown in Annexure 'A' & 'B' who will be imparted pre-selection training will be called in the selection. Calling them in the selection will depend upon their position in the integrated seniority list.

Dy. CMEs/Sr.DMEs/DMEs/SMEs/AMEs/ADMEs/AWMs/Officers-in-charge will be personally responsible to spare the staff for pre-selection coaching/training well in time. In case any SC & ST candidate is not interested for pre-selection coaching/training, his/her written refusal may be obtained and sent to this office in original through special messenger before the date of written examination (CBT). All care has been taken to indicate SC & ST status by this office.

However, it may also be checked at your end and ensured that no SC & ST candidate is left out from pre-selection coaching/training and same may be advised to this office.

On completion of the Coaching/Training a certificate to this effect and schedule of pre-selection coaching containing date, time, venue, name of the lecturer, topics/subjects & attendance sheet of eligible SC & ST employees must be sent to this office. Proforma for sending the information is enclosed herewith as Annexure 'E'.

5. Syllabus:

A copy of the syllabus for 70% PQ selection for promotion to Group 'B' posts of AME / ADME / AWM in Mechanical Department, circulated by Railway Board vide letter E(GP)2022/2/4 dated 07.11.2022 is attached as Annexure-'F'.

6. Scheme of Examination:

In terms of Railway board's letter No. E(GP)2022/2/4 dated 07.10.2022, the examination through CBT shall comprise of one paper which shall have 100% Objective type Multiple Choice Questions only. The paper will be of 100 marks and the distribution will be as under-

a	Professional Subject including optional questions of 10 Marks on Official language policy & Rules	:	70 Marks
b	Establishment and financial Rules	:	30 Marks
c	Qualifying marks	:	60 marks with relaxation as per extant rules
d	Duration/ Time	:	Two Hours
e	There shall be negative marking for incorrect answers. One third of the marks allotted for each question will be deducted for every wrong answer (In terms of Para 4.3 of RBE No. 53/2019 dated 19.03.2019)		



7. Written and Viva-Voce:

This selection will comprise of Written/CBT examination followed by viva-voce test. Only those qualify in the Written/CBT examination and pass the prescribed standard of medical examination, as detailed in Railway Board's letters No. E(GP)80/2/8 dated 31/10/91, letter No. 99/H/5/3 dated 21.05.1999, & 18.12.2000, will be called for the Viva-voce test and without medical fitness certificate candidates will not be eligible for attending viva-voce test. In this regard provisions laid down in paras 529 and 530 read with para 503 of IRMM/Volume-I, 3rd Edition 2000, are relevant.

Sr. DPOs, Dy. CPOs, DPOs, SPOs, APOs & controlling officers of the employees may personally ensure that this notification has been communicated to the employees enlisted at Annexure- 'A' & 'B', without fail. Displaying of this notification in the prominent Notice Boards of the respective offices of HQ/Divisions/Workshops/Units may also be ensured.

The notification is also available on this Railway's website – www.ncr.indianrailways.gov.in

(About us → Department → Personnel → NCR Gazetted Section → CBT)

Receipt of this notification may please be acknowledged.

DA: As above.


(Iftikhar Ahmad Khan)
SPO/Gaz
for General Manager (P)

Copy forwarded for kind information and necessary action to:

1. Secy. Railway Board/NDLS
2. Secy. to GM
3. Secy. to PCME
4. PCPO & CPO/Admn.
5. PCMD, CPRO
6. MS/JHS, PRYJ, AGC & CNB.
7. General Secy./NCRES & NCRMU/PRYJ

Annexure - 'A'

Main List - Based on provisional inter-se-seniority list of Group 'C' employees of Mechanical Department published / circulated vide letter No. 797-E/Mech./Inter-se-seniority/11-13/Gr. B/Part-I dated 12.01.2024 for selection to the post of AME/ADME/AWM against 70% PQ selection, special drive to fill up vacancies for Mechanical Department.

SN	NAME(S/Shri)	FATHER'S NAME	CATG	DESIGN	Divn/ WS	STN
1	Bhaskar Dev Shukla	Badri Vishal Shukla	UR	SSE	AGC	AGC
2	Satya prakash sachan	Chhotey Lal	UR	CLI	ALD	CNB
3	Nepal Singh	Padam Singh	SC	Ch.LI	AGC	AGC
4	Harish Chander	Suraj Bhan	UR	Ch.LI	AGC	NDLS
5	Naresh Kumar Goswami	Kailash Chand	UR	Ch.LI	AGC	AGC
6	Neeraj Upadhyay	Vishwanath Upadhyay	UR	Ch.LI	AGC	AGC
7	Radhey Shyam	Bhikam Singh	SC	Ch.LI	AGC	AGC
8	Anoop Kumar Mukherjee	Nev Gopal	SC	Ch.LI	AGC	AGC
9	Mahesh Kumar Mishra	Sundar Lal Mishra	UR	CLI	ALD	TDL
10	Dhanjay Rahalkar	Madhukar Rahalkar	UR	SSE	STLI	STLI
11	Satya Prakash Sharma	Munshi Lal	UR	SSE	STLI	STLI
12	Promod Kumar Pathak	R.P.Pathak	UR	CLI	AGRA	AGC

B

Reserved List - Based on provisional inter-se-seniority list of Group 'C' employees of Mechanical Department published / circulated vide letter No. 797-E/Mech./Inter-se-seniority/2011-13/Gr. B/Part-I dated 12.01.2024 for selection to the post of AME/ADME/AWM against 70% PQ selection, special drive to fill up vacancies for Mechanical Department.

SN	NAME (S/Shri)	FATHER'S NAME	CATG	DESIGN	Divn/ WS	STN
1	S.P.Sharma	Pooran Mal Sharma	UR	LI	JHS	JHS
2	Mehmood Khan	Shamsher Khan	UR	LI	JHS	JHS
3	D.K.Rajvansi	Jawahr LAL	SC	LI	JHS	JUI
4	Pratap Singh	Mohar Singh	SC	LI	JHS	JHS
5	Ram Bhadur	Revati Ram	SC	Ch.LI	AGC	AGC
6	Devendra Kumar Goyal	S.K.Goyal	UR	Ch.LI	AGC	MTJ
7	Shailesh Bansal	S.C.Bansal	UR	Ch.LI	AGC	AGC
8	M C Mishra	G C Mishra	UR	CLI	ALD	TDL
9	R.K.Singh	Radha Kishan	SC	LI	JHS	JHS
10	Udai Shankar	Sheetal PD	SC	LI	JHS	BNDA
11	Manoj KR. Saxen	Rajendra Kumar	UR	LI	JHS	JHS
12	Ajay Sehgal	M.L.Sehgal	UR	LI	JHS	JHS
13	Ravindra K. Gupta	GOVIND DASS	UR	LI	JHS	JHS
14	Manoj K.Singh Kushwaha	Bhanwar Singh	UR	LI	JHS	JHS
15	I.P. Singh	Udai Raj Singh	UR	SSE	JHS	DTC
16	Asan Ali Hyderi	Yusuf Ali Hyderi	UR	SSE	JHS	JHS
17	Sanjay Jain	Raj Kumar Jain	UR	SSE	JHS	GWL
18	N.K.Yadav Pratap Singh	Pratap Singh	UR	SSE	JHS	DTC
19	Charles Hembrom	Sri Haikai Hembraum	ST	SSE	PRYJ	CNB
20	Om Prakash Shukla	Raj Hari Shukla	UR	SSE	PRYJ	HQ
21	Ram Surat Prasad	Purshotam	SC	SSE	PRYJ	PRYJ
22	Ashok L. Hivarkar		ST	SSE	JHSW	
23	Suresh Kumar	Ram Gopal	SC	SSE	PRYJ	CNB
24	Om Prakash	R A Upadhaya	UR	SSE	PRYJ	GMC
25	Pradosh Chandra Awasthi	R K Awasthi	UR	SSE	PRYJ	CNB
26	Bharat Kumar Chaurasia	Virendra Kumar	ST	SSE	JHS	JHS
27	Diwakar Dajiba Dodke		ST	SSE	JHSW	JHSW
28	Ramakant Dubey		UR	SSE	JHSW	JHSW
29	Dan Singh			SSE	JHSW	JHSW
30	H.K. Yogeshwar	Malovar Nath	UR	SSE	PRYJ	HQ

B

SN	NAME (S/Shri)	FATHER'S NAME	CATG	DESIGN	Divn/ WS	STN
31	Manish Kumar Ahirwar	Mani Ram Ahirwar	SC	SSE	JHS	JHS
32	Pramod Kumar		UR	SSE	JHSW	JHSW
33	Rajesh Kumar Nigam		UR	SSE	JHSW	JHSW
34	Shamrao Suryabhan Ohal		SC	SSE	JHSW	JHSW
35	Pramod Kumar		SC	SSE	JHSW	JHSW
36	G.S. Sharma		UR	SSE	JHSW	JHSW
37	Vijendra Pratap Singh	Pratap Singh	UR	SSE	PRYJ	PRYJ
38	Bhanwar Singh Meena	Kishori Lal Meena	ST	SSE	PRYJ	GMC
39	Akhilesh Kumar	Genda Lal	SC	SSE	JHS	GWL
40	Kedar Bhujang	Prabhakar Bhujang	UR	SSE	STLI	STLI
41	Dharam Singh Meena	Raja Ram Meena	ST	SSE	JHS	GWL
42	Lajja Ram Meena		ST	SSE	JHSW	JHSW
43	Jitendra K. Upadhyay		UR	SSE	JHSW	JHSW
44	Surendra Singh		UR	SSE	JHSW	JHSW
45	Rajesh Kumar Khare		UR	SSE	JHSW	JHSW
46	Sanjay Awasthi	Srikant Awasthi	UR	SSE	PRYJ	CNB
47	Ajay Kumar Verma	R S Nishad	UR	SSE	PRYJ	SKB
48	Pankaj Srivastava	D S Srivastava	UR	SSE	PRYJ	DER
49	Shailendra Kumar	Chiraunji Lal	SC	SSE	PRYJ	PRYJ
50	Anil Kr. Yadav	S S Yadav	UR	SSE	PRYJ	CNB
51	Devi Chandra	Jiya Lal	SC	SSE	PRYJ	CNB
52	Ashish Kumar	Dr Amrendra Kumar	UR	SSE	PRYJ	GMC
53	Kamlendra nath Saxena		UR	SSE	JHSW	JHSW
54	Mukesh Kumar Sahu		UR	SSE	JHSW	JHSW
55	Ravi Gupta		UR	SSE	JHSW	JHSW
56	Jay Prakash Prasad Singh	M P Singh	ST	SSE	PRYJ	PRYJ
57	Niraj Kumar		SC	SSE	JHSW	JHSW
58	Anoop Kumar Raikwar		UR	SSE	JHSW	JHSW
59	Kailash Meena		ST	SSE	JHSW	JHSW
60	Ashok Kumar Sahu		UR	SSE	JHSW	JHSW
61	Vishnupal Yadav		UR	SSE	JHSW	JHSW
62	Kiran Prakash		UR	SSE	JHSW	JHSW
63	Rajeev Jan	Anil Kumar Jan	UR	SSE		
64	Chandrakant	Abhay Raj Singh	UR	SSE	PRYJ	HQ
65	Brajesh Kumar	Khohari Chaudhary	UR	SSE	PRYJ	CNB

✓

Declaration to appear in selection to the post of AME/ADME/AWM (Gr. -'B') against 70% PQ selection, Special drive to fill up vacancies for Mechanical Department.

(It is mandatory to fill each and every column with correct information)

1	I _____ (Name of employee) S/O Shri _____ appearing at Serial No. _____ in Annexure _____ declare that:-		
2	I am _____ (WILLING / UNWILLING) to appear in the written test (CBT) for selection to the post of AME/ADME/AWM against 70% PQ selection vide notification No. 797-E/Gaz/Gr. 'B' Sele./CBT-Spl./Mech./70%/NCR dated .01.2024.		
3	I PAS number (11 digit employee ID)		
4	HRMS ID		
5	Designation		
6	Mobile No.		
7	e-mail ID		
8	Place of posting		
9	Division/workshop/unit		
10	Controlling officer		
11	DOB (DD/MM/YYYY)		
12	Community (UR/SC/ST)		
13	PwBD or not (Yes / No)		
14	If yes, PwBD category		
15	If PwBD, whether entitled to scribe (Yes/No)		
16	I had earlier appeared in Written Examination of AME/ADME/AWM Group 'B' against 70% PQ selection for which details are as under:-		
	SN	Date of written examination appeared earlier	Pass (Yes/No) Fail (Yes/No)
	a)		
	b)		
	c)		
17	I am aware that giving willingness does not entitle me to be compulsorily called in the Written Test (CBT), as it totally depends upon my position in the final inter-se-seniority as well as after finalisation of zone of consideration in terms of Para 3 of notification No. 797-E/Gaz/Gr. 'B' Sele./CBT-Spl./Mech./70%/NCR dated .01.2024		
18	I hereby declare that all the information given above are true, complete and correct to the best of my knowledge and belief. I understand that in the event of any information given herein, if found false or incorrect or concealed, my candidature will liable to be terminated and D&AR action can be taken against me for this.		

Affix recent passport size colour photograph of the employee duly attested

(Signature of the employee with date)

Name: _____

File No. _____

Dated: _____

Information furnished in the above table by the employee has been verified & found correct. Forwarded to Dy. CPO/Gaz/NCR/HQ/PRYJ for necessary action.

Signature of Personnel officer/ Controlling officer (with date & office seal)

Annexure -'D'**PROFORMA OF CONSOLIDATED STATEMENT FOR FORWARDING THE APPLICATIONS FOR SELECTION TO THE POST OF AME/ADME/AWM (GROUP - 'B') AGAINST 70% PQ SELECTION FOR SPECIAL DRIVE TO FILL UP VACANCIES OF MECHANICAL DEPARTMENT**

SN	Name (S/Shri)	Father's name	I PAS number (11 digit employee ID)	HRMS ID	Designation	Mobile No.	e-mail ID	Place of posting	Division/w orkshop/u nit	Controlling officer	DOB (DD/MM/Y YYY)	Community (UR/SC/ST)	PwBD or not (Yes/No)	If yes, PwBD category	If PwBD, whether entitled to scribe (Yes/No)	Willing / Unwilling
[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]

Note: I-PAS (Column-4) should be of 11 digits. In case the employee ID is less than 11 digits, equal number of zeros may be pre-fixed to make it 11 digit.

Signature of Personnel officer /
Controlling officer (with date & office seal)

Annexure - 'E'

Statement of pre-selection coaching of SC/ST employees for selection to the post of AME/ADME/AWM
(Group 'B') against 70% PQ selection, special drive to fill up vacancies for Mechanical Department held
from _____ to _____

DATE	Duration/Time		Name of Officer/Lecturer	Venue	Subjects taught
	From	To			

Number of SC/ST candidates who attended pre selection training/coaching : _____

Number of SC/ST candidates who have given refusal to attend pre selection training/coaching : _____.

Number of SC/ST candidates who remained absent during pre selection training/coaching: _____

**SYLLABUS FOR PROMOTION TO GROUP 'B' POST OF ADME/AWM THROUGH
70 % SELECTION IN MECHANICAL DEPARTMENT**

Paper will be of two parts one part comprising of questions from establishment, Financial Rules and Stores which will be mandatory for all. Other part will be of Technical questions from four streams of Mechanical Department. Questions on PU are included in workshop segment. Question on Rajbhasha will be of optional nature of fifteen marks

Part-A consists of questions from Establishment, Financial rules & Stores.

Part-B Contains Professional portion in Four sections representing various streams of Mechanical Branch – Divisional working and Disaster management, Diesel Locomotives, Carriage & Wagon, Workshops and PU,

PART-A (Stores Rules)

STORES

- Classification of Stores
- Procedure of drawal of Stores
- Indenting Procedures
- Procurement methods-Local purchase, Spot purchase, Bulletin tender, Advertised tender, Limited tender, Tender Committee, Direct Purchasing
- Schedule of Powers
- Incoming inspection requirements
- Scrap disposal

PART-B-Professional Portion

DIVISIONAL WORKING & OPERATIONS MANAGEMENT

Working Time Table

- Working in Control Office including Passanger grievance redressal portals e.g. Rail Madad
- Accident Classification, definitions, ART Ordering, Role of Supervisors & officers at accident site Management. ,Accident investigation including proforma for measurement
- 140 ton Crane Construction & safety in operations

DIESEL LOCOMOTIVES

- Basic Features and troubleshooting of HHP locomotives
- Preventive maintenance schedules
- Latest design improvements in diesel locomotives to reduce failures on line.
- Features of GE Locomotives
- Design improvements in bogies to make them fit for high speed operation
- Air Brake system of diesel locos including working of compressors and vigilance control devices and their maintenance
- Cooling water system of diesel engines

- Fuel oil system of diesel engines
- Control of lubricating oil consumption
- Safety devices used on diesel engines and locomotives
- Trouble shooting on locomotives running on the railways
- Fuel Economy on diesel locomotives
- Thermal loading of engine components
- Under gear maintenance
- Suspension bearings, wheels
- Electric Systems of Diesel Locomotive
- Load Box Testing
- MEMU ,DEMUs-types, systems & trouble shooting
- Basics of DPRS (Distributed Power Rolling Stock)
- Introduction to GM Locomotives and its systems

CARRIAGE & WAGON

Coaching stock- preventive maintenance schedules in Coaching Depots including IOH.POH, SS2, SS3 Schedules in shops

- Wagon Stock-preventive maintenance including ROH in depots and POH Schedule in shops ,Ride Index, Anti Telescopic features
- IRCA Rules for reject able defects
- ICF & LHB Coach Bodies and their maintenance in sick line/shops
- Generic details of train set
- Casnub Bogie & its modifications for high speed
- Corrosion repairs to caching and goods stock
- Couplers & Draw gear, Train Parting , Brake Binding & measures to avoid the same
- Water availability in coaches
- Fire prevention on Trains
- Air Brake System-Twin Pipe & single pipe. Under frame & bogie mounted brake system, Test rig, Checking timings, trouble shooting, DV defects, slack adjustment methods. Brake Binding, WSP system, FIBA, Air spring suspension in LHB coaches
- Passenger amenity items
- OBHS , CTS and other coach cleaning systems
- Maintenance Pattern of freight trains including CC Rakes & Coaching stock maintenance including Revised Policy Circular-4
- Neutral Train Examination
- Maintenance of various components like DV, SAB, PEASD
- Latest design improvements of Carriage & Wagons to improve their performance and speed potential
- LHB Coaches & BLC Wagons
- Construction, Design & Maintenance of special purpose Wagons

WORKSHOPS and Production Units

- System of labour accountal GA Cards for time keeping documents, tally sheets, Job/Route Cards, inspection & rate fixing
- Rules & Calculations under incentive scheme
- Paints & painting systems
- Different types of machine tools such as lathes, milling machines, shapers, planers, cutting tools & cutting speeds
- CNC machines
- CLW Pattern of Incentive Scheme, Group Incentive Scheme
- Different types of welding processes, welding defects
- Wheels, tyres & axles and their ultrasonic testing
- Heat treatment of ferrous items such as surface hardening, annealing, normalizing etc
- Roller Bearing & Cartridge Bearings
- Injury free features in coaches
- Material handling
- Design of coaches and wagons
- Basic concepts of casting and Heat treatment methods
- Manufacturing and Heat treatment process of wheels and axles
- Factory Layout
- Process flow chart of Production Units
- Machinery and Plant maintenance

Rajbhasha

Optional questions of 15 marks

Syllabus for promotion to Group- B posts - 70% selection and 30% LDCE.

Syllabus for Establishment Rules:

1. Organization of the Personnel Department in Railways objectives functions and policies of Personnel Department.
2. Recruitment and Training, Classification of Services, Recruitment in Different services, Railway Recruitment Boards & Railway Recruitment Cells Compassionate Ground Appointments, Initial & In Service Training, Refresher Courses, Central Training Institutes, Training Centers in Zones, Divisions & Workshops, Training Modules for different posts, Training under Apprentices Act, Online Training, APARs.
3. General conditions of service in Railways, Seniority, Lien, Inter Railway & Inter Division transfers, Deputation, Promotion Policy & methods. Selection, Suitability, Trade Tests, Leave Rules, Pass Rules, Joining Time Reservation policy, HOER, Overtime, Payment of wages, current CPC Pay Rules, Advances in Railways.
4. Manpower planning, Rightsizing & Benchmarking, creation, extension and surrender of posts, creation of posts against new assets, different types of posts including workcharged posts.
5. The Railway Servants (Discipline & Appeal) Rules, 1968 and related instructions.
6. The Railway Services (Conduct) Rules, 1966 and related instructions.
7. Retirement benefits, qualifying service, pension, family pension, commutation gratuity, new pension scheme.
8. Staff welfare, SBF, Railway institutes, Railway schools, Ex-gratia payment, Incentive Bouns Scheme, Staff Grievances Redressal Mechanisms.
9. Industrial relations in Railways, recognized trade unions, industrial disputes. The Industrial Disputes Act, 1947. The Industrial Relations Code, 2020. The Trade Unions Act, 1926, PNM, PREM, JCM, Various Associations & Informal Meetings.
10. The Factories Act, 1948. The workmen's Compensation Act, 1923. Functions of Labour Enforcement Officers, Right to Information Act.
11. The scope of Information Technology in Railway e – office. HRMS, IPAS , LIMBS, ARPAN, CPGRAMS, ANUBHAV etc.

Syllabus for Financial Rules:

1. Parliamentary Control over Railway Finance, Public Accountability, Cannons of Financial Propriety.
2. Railway Budget - Budgetary terms, Types of Budgets, Budget cycle, Demand of Grants, Budgetary and Financial Reviews.
3. Rules of Allocation - Classification of expenditure - Control of expenditure - Responsibility Accounting - Performance Budgeting - Exchequer Control - Financial Results of Working lines.
4. Works Programme - Financial justification of Works - Surveys - Preparation of Estimates - Capital Budget - Control over Capital Expenditure - Reappropriation of Funds.
5. Financial control over Stores Expenditure - Purchase and Stores Keeping Procedure - Inventory Control and ABC Analysis.
6. Financial & Cost Control in Railway Workshops/Sheds/Units.
7. Rules and procedure relating to Tenders and contracts for execution of works and Procurement of Stores, M&P Programme and RSP.
8. Procedure for Possessing and finalizing Audit Objections and Draft Paras.
9. Delegation of Powers.
10. Losses, Frauds and Embezzlements.
11. General Financial Rules
12. Government e-Market (GeM)
13. Classification of Railway Revenue (Earnings)
14. Information Technology in general with specific reference to Railway's IT Applications
15. Taxation matters with special focus on GST & Income Tax
16. Organization of CGA and C&AG
17. Any other topic felt necessary from time to time