पूर्व मध्य रेलवे
(निर्माण संगठन)

कार्यालय,
मुख्य प्रशासनिक अधिकारी (निर्माण)
पूमरे / महेन्द्रूघाट / पटना
दिनांक–19.07.2022

No.- ECR/CAO/Con/E/LDCE/AME (Gr. 'B')

- **All Chief Engineers/Con/ECR/MHX, Patna.**
  (NE, NC,Central, Planning, North, SE, NW, South & GB). SD.
- **CSTE/Con/North & South/ECR/MHX, Patna.**
- **CEE/Con/MHX, Patna.**
- **All Dy. CEs/Con/ MHX, Patna (North, South, TS, Design, General, ROB, PM & Survey)**
- **All Dy. CEs/Con Of Field Units,**
  (DNR, RGD,MGS, BRKA, DHN & DHN-II, Renukut, Chopan, Singrauli, HZME, GB/Patna, GB/MGR, Hajipur-I & II, Darbhanga, Bettiah, NKE SPJ-I, II & IV, & Muzaffarpur).
- **Dy. CSTE/Con/DNR, DHN, CPU & SPJ, SPJ-I.**
- **Dy. CEE/Con/MHX/Patna/North (SPJ), South/MHX & CPU.**
- **SMM/Con/MHX, Patna.**
- Dy. CEE, Dy. CE/GLP/DMH, Dy CME/DLF/MEW

विषयः– Limited Departmental Competitive Examination (LDCE) for the post of AME (Gr.'B') in Pay Band Rs. 9300-34800 (Level-8) Grade Pay Rs. 4800 against 30% quota.

संदर्भः– महाप्रबंधक (कार्मिक) / पूमरे / हाजीपुर का पत्र सं–ECR-HQ0PERS(Gaz)/82/2022 Dt:-15.07.2022

विषयांकित से संबंधित संदर्भित पत्र की छायाप्रति सूचना एवं अग्रेत्तर आवश्यक कार्रवाई हेतु इस पत्र के साथ संलग्न कर प्रेषित की जा रही है।

इसकी विस्तृत जानकारी पूर्व मध्य रेलवे के वेबसाईट से निम्नलिखित प्रकार से प्राप्त करें–
www. ecr.indianrailways.gov.in –HajipurHQ—Construction—recruitment/selection notification.

संलग्नक–यथोपरि।

19/07/22

(आलोक श्रीवास्तव)
वरिष्ठ कार्मिक अधिकारी / निर्माण
कृते मुख्य प्रशासनिक अधिकारी / निर्माण

Copy to:-

1. Secy. to CAO/Con/South for kind information of CAO/C/South please.
2. Secy. to CAO/Con/North for kind information of CAO/C/North please.
3. Secy. to CAO/GLP for kind information of CAO/GLP please.
4. CA/Personnel - for uploading on WEBSITE of Construction Organization.
5. Ch. OS/R & D/Pers,/Con/MHX.
6. All Beat CSWI/Con/MHX
7. Notice Board

19/07/22

कृते मुख्य प्रशासनिक अधिकारी / निर्माण

Scanned with CamScanner

East Central Railway

Office of the
General Manager(P)
Hajipur

No:- ECR-HQ0PERS(Gaz)/82/2022

Dated:- 15.07.2022

Secy. to GM/ECR: For kind information of GM
Dy. Secy to AGM: For kind information of AGM
Secy. to PCPO: For kind information of PCPO
GM (P)/CORE/Allahabad
General Manager/RITES/NDLS
PCME/ECR/HJP, SDGM/ECR/HJP
CAO (Con)/N & S/MHX/ECR/PNBE, CAO/WPO/Patna
CAO (GELF)/ECR/DMH, CPD/RE/DNR
Chairman/RRB/Patna & MFP, CPO/Law & Con/MHX
DRM/ECR/DNR, DDU, DHN, SEE & SPJ
CWM/WS/SPJ & CWM/CRW/HRT
Sr.DPOs/ECR/DNR, DDU, DHN, SEE & SPJ
Sr.DMEs/ECR/ DNR, DDU, DHN, SEE & SPJ
Dy.CPO/MPP/ECR/HJP
Principal/ZRTI/E.C.Rly/Bhuli & MFP
SPO/Rectt./ECR/HJP
APO/MPP/ECR/HJP : For uploading on Net.
All Extra Divisional Units

Sub:- Limited Departmental Competitive Examination (LDCE) for the post of AME (Gr. 'B') in pay band ₹ 9300-34800 (Level-8) Grade pay ₹ 4800 against 30% quota.

*****

With the approval of the Competent Authority, It has been decided to hold a LDCE for forming a panel against **01 vacancy (UR-01, SC-00, ST-00)** for the post of AME (Gr. –'B') against 30% quota for E.C. Railway as per details given below:-

As decided by Railway Board vide L.No.E(GP)2002/2/88 dt. 31.01.2006, that there will be combined selection for the different streams of Mechanical Department i.e. for the post of AME/C&W, AME/Power and AWM.

The details are given below:-

(1) **TENTATIVE PROGRAMME OF EXAMINATION & VIVA-VOCE:-** will be notified in due course

(2) **Eligibility:-(As on 01.02.2021)**

a) All permanent Group 'C' technical staff & running staff of Mechanical Department working/holding lien in Mechanical Department of East Central Railway in Pay Band Rs.9300-34800 (PB-2) with Grade Pay Rs.4200/- (Level- 6 in 7th CPC) and above including Shunter-II of Mechanical Department/E.C. Railway working in Pay Band Rs 5200-20200/- (PB-1) Grade Pay Rs.2400/- (equivalent to the stationary post in Pay Band Rs.9300-34800/- (PB-2) Grade Pay Rs.4200/- & above as per RBE No. 92/2015) including those who are working in other Railways/units and on deputation having lien and seniority on East Central Railway and completed minimum 5 years of non-fortuitous regular service in the grade(s) as on **01.02.2021** are eligible to volunteer for the LDCE.

However, those Gr. 'C' employees who have been provided Grade Pay 4200/- or above in PB-2 (9300-34800) under ACP/MACP are not eligible to volunteer for the above written examination.

The cut-off date of eligibility for 30% LDCE is **01.02.2021** which is same as in selection against AME (70%).

b) As per Railway Board's letter No. E(GP)2005/2/74 dt 13.03.08 (RBE 40/08), in case of persons transferred at own request to a new unit in the same category of posts, and assigned bottom seniority therein, the service rendered by them in the previous unit may be reckoned for determining their eligibility wherever a minimum length of service is prescribed as a condition for promotion in the new unit, subject to the condition that the length of service which is so allowed to be counted does not exceed the length of service of their immediate senior in the new unit.

Contd...P/2

APO/MPP

c) Those Railway employees who have come on own request transfer/mutual transfer and joined E.C. Railway after the cut off date i.e. 01.02.2021 will not eligible to appear in this selection.

(3) Eligible staff who desire to volunteer for the above LDCE may submit their application through proper channel to their respective Personnel Branch where they hold lien & seniority.

(4) Eligible staff working in the Construction/Project organization on deputation or in training or in any ex-cadre post, who desire to volunteer for the above LDCE may also submit their application through their respective Personnel Branch where they hold lien & seniority. The Personnel/Controlling Officers of the concerned Divisions/Units are advise to transmit the notification to the staff, who are on deputation through their Divisions/Units.

(5) When an employee is holding an ex-cadre post, details of his/her post in regular cadre with the grade and date of entry as a regular measure should be furnished. This may also be brought to the notice of all concerned. It may be ensured that wide publicity is given to this Notification amongst all the eligible staff. It is the personal responsibility of the Personnel Officers/Controlling Officers of the Units to ensure that the notification reaches to all the eligible employees well in time.

(6) All the volunteers who fulfill the above mentioned conditions of eligibility will get the chance to compete in the said LDCE, without any restrictions to the number of candidates to be allowed for appearing in the examination.

(7) The above LDCE will be based on the candidate's performance in Examination, viva-voce & record of service. Only the candidates, who qualify in the Examination, and found medically fit for Safety category post of AME(Gr.B) as prescribed in Indian Railway Medical Manual will be called for Viva-voce test. The placement of the candidates in the panel will be based on their performance in Examination, Viva-voce test and Record of service as per extant instructions of Railway Board and will be strictly as per merit.

(8) **Pattern of Examination:** The examination will be conducted as per guidelines/instructions contained in Railway Board's letter No. E(GP)2022/2/4 dated: 28.06.2022. **(copy enclosed as Annexure- 'C')**

(9) Total marks & qualifying marks of Viva-voce:-

Head	Maximum Marks		Qualifying Marks
Record of Service -	25	Total	30, in which 15 marks for Record of service will be essential.
Viva-voce test -	25	50 marks	

(10) **Syllabus:** As per para 3 (v) of Railway Board's letter No. E(GP)2022/2/4 dated 28.06.2022, syllabus for 30% LDCEs for promotion to Group-'B' post of AME has already been issued vide Railway Board's letter No. E(GP)2005/2/8 dated 22.03.2007, 20.06.2008 & 12.09.2012. However, as it is based on old pattern when there were two Papers – Paper-I and Paper-II in the LDCEs, the Centralised CBT shall be held from the said syllabus after amalgamating the topics prescribed in Paper-I and Paper-II of respective syllabi. **The syllabus of old pattern for Paper-I and Paper-II is enclosed herewith as Annexure- 'B'.**

(11) a) The Controlling Officers should give the wide publicity of this notification amongst the eligible staff under their control and ensure submission of applications by the candidates in the prescribed proforma (Specimen Copy enclosed as **Annexure-"A"**).

b) **The last date for submission of the application by candidates is 31.07.2022.**

c) The Controlling Officers are also advised that applications submitted by the candidates (in prescribed proforma) must be forwarded to concerned Personnel Branch/Unit office by **01.08.2022**

d) The applications should be scrutinized properly in Personnel Branch with the Service Record to avoid further complications. The applications should also be signed by the Controlling Officer with official seal and should have the counter signature of the concerned 'Personnel' Branch Officer to avoid any factual errors.

e) All the scrutinized applications should be sent in a bunch through special messenger to **Dy.CPO/Gaz. /ECR/ HJP on or before 03.08.2022 positively. Applications forwarded after the target date will not be entertained under any circumstances.**

Contd...P/3

It may also be noted that application other than in prescribed proforma, having incomplete information or without signature of the Controlling Officer and countersigned by Personnel Branch Officer will not be entertained and will be rejected summarily.

(12) In case the service particulars furnished by the volunteers and certified to be in order by the concerned authority are found incorrect/false subsequently, the candidature of the volunteer will be liable to be cancelled at any stage and suitable departmental action will be initiated against him/her.

(13) ACTION TO BE TAKEN ON RECEIPT OF APPLICATION BY CONCERNED PERSONNEL OFFICERS/CADRE CONTROLLING OFFICERS:-

a) The Personnel Officer/Cadre Controlling Officer will check the correctness of all the particulars of the applications with the Service Records and other relevant records and certify the correctness of each item of the application. Without such certification, application received will summarily be rejected and the responsibility will be fixed for incorrect or incomplete certification against the Officer who will certify/verify. The Personnel Officer/Cadre Controlling Officer should invariably write **"Checked and verified"** in each and every application after checking and verifying the details duly attesting their signature and date of certification (the date of certification should invariably put in the application).

In case, the Personnel/Cadre Controlling officers do not put the date after certification or merely forward the application without checking and verifying the details, the matter would be brought to the notice of PCPO and concerned PHOD for taking action against him.

b) It may please be noted that Controlling Officers/Heads of the Units have no discretion to entertain any application beyond the last date. The applications of the employees who are eligible, should only be forwarded after verifying the other relevant particulars and ineligible application should not be forwarded.

c) The Personnel Officer/Cadre Controlling Officer should forward the scrutinized and checked applications in one bunch together under one covering letter furnishing **the details in the following proforma addressed to Dy.CPO/Gaz./HQ by 03.08.2022** indicating therein the total number of applications forwarded. (The details should be sent in soft copy in (MS Excel format also). The applications rejected may be intimated to the individuals giving reasons thereof by the concerned Unit/Divn. where lien and seniority of concerned staff held.

1	2	3	4	5	6	7	8	9	10		
Sl. No	Name of the employee	Desig.	DOB	DOA	Working Under	Community (UR/SC/ST)	Date of Regular promotion to Grade Pay		Total service in (GP) Rs.4200/- (Rs.2400/- in case of L.P.S. II) & above in Mech. Deptt as on 01.02.21		
							GP 4200	GP 4600	Year	Month	Days

(14) **TRAINING OF SC/ST CANDIDATES:**
In terms of para 2 (ii) of Railway Board's letter No. E(GP)2010/2/39 dated 28.08.2019, Pre-selection training is not required as in present LDCE, no reserved vacancy and candidates are appearing against unreserved vacancies.

(15) The eligible staff should also be advised that no suplimentary examination would be held for the absentees under any circumstances. As per rule, there is no provision of absentee exam in LDCE.

(16) The controlling/authorized officer should ensure the issue of individual sparing letter/identity slip duly attesting specimen signature of the candidate on the sparing letter/identity slip. The candidates without proper sparing letter/identity slip will not be allowed to appear in the examination.

(17) Concerned Personnel Branch officer & controlling officers should ensure submission of service records and ACRs/APARs of last 05 years and DAR/Vig. Clearance in respect of staff declared qualified for the viva-voce in due course/immediately after publication of the result of examination through special messenger to APO/Gaz./ECR/HJP.

Contd...P/4

(18) The above selection will be held as per procedure laid down in Master Circular No. 68, governing rules for promotion from Gr. 'C' to Gr. 'B' issued by Railway Board and the instruction issued time to time by Railway Board. The said master circular is available on website www.indianrailways.gov.in....>ministry of railway...>railway board .....> Directorate... >Establishment...>E(GP) Master Circular. The department/division/unit should ensure the compliance of instructions of item 15 of Master Circular 68.

(19) Application received after the target date should not be entertained and the same should be disposed off at the Division /Extra Divisional level by rejecting them on account of late receipt under advice to this office.

Please acknowledge receipt.

DA :- i) Proforma of application (Annexure 'A')
ii) Syllabus (Annexure 'B')
iii) Rly Board letter dated: 28.06.22 (Annexure 'C')

(Trilok Nath Verma)
APO/M&E
For General Manager (P)

ANNEXURE- "A"

PROFORMA OF APPLICATION TO BE FILLED UP BY THE VOLUNTEER FOR SELECTION OF AME/Gr. ('B') AGAINST 30% QUOTA ATTACHED WITH THIS OFFICE NOTIFICATION NO. ECR-HQ0PERS(Gaz)/82/2022 Dated.- 15.07.2022.

1. **Full Name (In Block Letters)** :-
2. **Designation and station** :-
3. Working under :-
4. Date of Birth :-
5. Date of appointment **(Post with Grade pay and Department)** :-
6. Divn/Unit where lien/seniority held :-
7. Dt. of Joining in Present lien/seniority unit :-
   (Please mention :- Direct Rectt./Own request transfer/Mutual transfer/Administrative ground)-
8. PF/NPS No. :-
9. Educational Qualification :-
10. Whether the candidate belongs to SC/ST :-
    Community (if yes, a copy of caste Certificate duly attested by a Gazetted Officer should be enclosed.)
11. Date of appointment/promotion to the following grade on regular basis (7th CPC) in Mech. Deptt. :-

Pay-Band & Grade-Pay	Date	Month	Year
(a) Level 4 in 7th CPC (PB-II, GP- 2400 in 6th CPC) (For Loco Pilot Shunting II only)			
(b) Level 6 in 7th CPC (PB-II, GP- 4200 in 6th CPC)			
(c) Level 7 in 7th CPC (PB-II, GP- 4600 in 6th CPC)			

12. Length of non-fortuitous service (Regular Promotion) in the following grade in present lien/seniority unit (Mech. Deptt.) as on **01.02.2021.**

Pay-Band & Grade-Pay	As on	Year	Month	Days
(a) Level 4 in 7th CPC (PB-II, GP- 2400 in 6th CPC) (For Loco Pilot Shunting II only)	01.02.21			
(b) Level 6 in 7th CPC (PB-II, GP- 4200 in 6th CPC)	01.02.21			
(c) Level 7 in 7th CPC (PB-II, GP- 4600 in 6th CPC)	01.02.21			

13. Present pay scale & date of promotion to present scale/Grade Pay:-
14. Choice of language to answer the questions (English/Hindi). :-

DECLARATION OF THE CANDIDATE:-

(i) I..... do hereby declare that, I have **completed 05 years non-fortuitous Service in Pay Band Rs. 9300-34800 (PB-2) with Grade Pay Rs.2400/Rs.4200 and above in Mech. Department as on 01.02.2021** and also fulfilled other eligibility criteria of the said selection.

(ii) I..... do hereby also declare that the above particulars furnished by me are true to the best of my knowledge and belief. I further undertake that any above entry is found incorrect or not in order, my candidature shall liable to be cancelled at any stage during pendency of the above selection.

SIGNATURE OF THE EMPLOYEE
Designation with Date
Mobile no. of employee

(A) Forwarding the application (filled-up) submitted by the candidates to the Cadre Controlling officer (Personnel Branch) by his /her controlling officer:-

The service particulars/Bio-data on the prescribed proforma filled-up by the Shri/Smt. _____ Designation_____ received within the target date is hereby forwarded to his/her respective Cadre Controlling officer (Personnel Branch) for verification with the service record and also for onward transmission to the GM(P)/ECR/HJP.

SIGNATURE OF CONTROLLING OFFICER
(With office seal & date)

(B) Certificate to be furnished by the Cadre Controlling officer (Personnel Branch):-

If the volunteer come under the circumstances mentioned in para 2(b) of the notification, the service rendered by immediate senior employee as on 01.02.21 should be indicated invariably in the under mentioned format.

No	Name (S/Shri) of immediate senior	Desig.	Pay Band (II) & GP	Year	Month	Day
			Level 4 in 7th CPC (PB-II, GP- 2400 in 6thCPC) (For Loco Pilot Shunting II only)			
			Level 6 in 7th CPC (PB-II, GP- 4200 in 6thCPC)			
			Level 7 in 7th CPC (PB-II, GP- 4600 in 6thCPC)			

It is certified that the service particulars/Bio-Data furnished by Shri/Smt. ..... Designation..... on the above proforma have been verified with his/her service record and found correct. The above mentioned candidate is eligible to appear in the said selection; accordingly the same is hereby forwarded to GM (P)/ECR /Hajipur for further necessary action.

SIGNATURE OF THE PERSONNEL OFFICER
(With office seal & Certification date)

Note : The application with any column unfilled will be summarily rejected.

ANNEXURE-'B'
1/8

GOVERNMENT OF INDIA
MINISTRY OF RAILWAYS
(RAILWAY BOARD)
*****

RBE No.: 40/2007

No.E(GP)2005/2/8 **New Delhi, dt: 22.03.2007**

The General Managers,
All Indian Railways and Production Units.

Sub: Syllabus for 30% LDCE for promotion to Group'B' post of AME/AWM in Mechanical Department of Railways/Production Units.

Ref: Railway Board's letter No. E(GP)79/2/30/3 dated 12.11.1979

A revised syllabus for Limited Departmental Competitive Examination (LDCE) for promotion from Group'C' to Group'B' posts in Mechanical Department of Railways/Production Units is enclosed for guidance. This may be given wide publicity and circulated amongst the eligible candidates.

2. The revised syllabus will be effective from the date of issue of this letter. However, LDCEs for which written examinations have already been held or which are at an advanced stage, need not be disturbed.

3. Please acknowledge receipt.

Santosh Mittal

Encl: As above

(SANTOSH MITTAL)
Dy. DIRECTOR, ESTT.(GP)-II
RAILWAY BOARD

PROPOSED SYLLABUS FOR 30 % LDCE FOR PROMOTION TO GROUP "B"FORAME/AWM IN MECHANICAL DEPARTMENT

PAPER-I

MAXIMUM MARKS 150 PASS MARKS 90

Part A – GENRAL PORTION-50 MARKS

GENERAL KNOWLEDGE

This section would contain questions of general interest and importance which is acquired by general observation and reading without specific text book study. Subjects of national importance as well as achievements of railways will also be covered. The standard of General Knowledge shall not be more rigorous than Matriculation.

GENERAL MATHEMATICS

- Arithmetic & Statistical operations Graphs, Fractions, Percentage, Sampling & Averages,
- Geometry-Area & volume upto Higher Secondary/ Class 12 Standard
- Algebra, simultaneous equations etc upto Higher Secondary/ Class 12 Standard
- Mechanics Velocity & Acceleration, work done& horse power etc upto Higher Secondary/ Class 12 Standard

STRENGTH OF MATERIAL

Various Engineering materials and their properties, Bearings, Stress & Strain , Fatigue, hardness, Corrosion & Surface finish.

PHYSICS & BASIC ELECTRICITY

- Temperature & its measurement
- Mechanics : Newton's Laws of Motion, Velocity & Acceleration ,work ,energy ,power, Archimedes Principle etc.
- Heat& Work, Expansion of Solids Liquids & Gases
- IC Engines, Gas Turbines, Heat Recovery & Thermal Efficiency, Supercharging & Intercooling
- Ohm's Law , Coulombs Law, Faraday's Laws ,Voltage , Current & Resistance, wet & dry batteries, power factor,
- Simple Motors & Dynamos-Principle & working ,transformer, relay, fuse, circuit breakers
- Power Supply, AC & DC ,Rectification

PART-B PROFESSIONAL PORTION-100 MARKS

GENERAL

- Out of commission (under repair) percentage for different types of rolling stock & motive power and how to minimize the same
- Different Types of Locomotive ,Coaches & wagon Stock in use on the Railways.
- Prevention of hot boxes on motive power/rolling stock & maintenance of roller bearings
- Disaster Management- Accident Classification, duties of first official to reach at accident site, causes of accidents and their prevention, existing disaster management system & its short comings, recommendations of high level committee, accident Enquiry
- Corporate Safety Plan, RSRC Recommendations
- Benchmarking

- Quality Improvement in Work area
- Failure analysis
- Performance Indices
- Items to be inspected at workplace
- Health & Safety Standards in Shops sheds & depots.

STORES

- Classification of Stores
- Procedure for 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

INFORMATION TECHNOLOGY

- Familiarity with Personal Computer Specs- Processor, RAM, Hard Disk, Floppy, CD, Multimedia etc.
- Operating System- Windows
  - Starting & closing programs
  - Creating/Saving/Copying/Moving files in PC and moving files from one PC to another PC
  - Utilities/Accessories: Disk Cleanup, Defrag, Antivirus, CD Burning
- Basic MS Word, Excel and PowerPoint
- Basic Local Area Networks: Servers, Hubs, Switches, Structured Cabling, Nodes, Network applications
- Using Internet: Email, Browsing, Searching

OTHER ISSUES

Environment ,Quality Management Systems ISO 9000 & ISO 14000

Fri 1/7/22

PROPOSED SYLLABUS FOR PAPER – II
MAXIMUM MARKS 150 PASS MARKS 90

Sufficient number of questions shall be included in each of the disciplines to enable a candidate to answer the questions upto full 150 marks.
Part –A consists of Establishment & Financial rules worth 50 marks.
Part –B Contains Professional portion of 100marks in Four sections representing various streams of Mechanical Branch - Division & Workshop Management ,Diesel Locomotives, Carriage & Wagon and Workshops. Candidates can attempt questions from their own discipline or from more than one discipline if he so desires to complete upto 100 marks .

PART-A (Establishment & Financial Rules)-50 MARKS

ESTABLISHMENT RULES

- General Conditions of service of Railway servants including rules regarding leave ,joining time passes
- Railway Service D&A Rules – 1968
- Railway Service Conduct Rules- 1966
- Retirement Benefits
- Payment of Wages ,Allowances and Overtime
- Labour laws including Payment of Wages Act, Workmen's Compensation Act, Hours of Employment Regulations, Factories Act, Industrial Disputes Act, Contract Labour Act,
- Manpower Planning & training
- Welfare measures in Railways
- PNM,JCM & PREM

FINANCIAL RULES

- Parliamentary Control over Railway Finance- Public accountability, Cannons of Financial Propriety
- Railway Budget- Budgetary terms, types of Budgets, Budget Cycle, Demand for grants, Expenditure Classification
- Works Programme- Financial Justification of Works- Preparation of Estimates, Capital budget, Control Over Capital Expenditure
- Financial and Cost Control in railway workshops , Sheds & Depot
- Delegation of powers
- M&P programme, RSP

PART- B-Professional Portion -100 Marks

DIVISIONAL WORKING & OPERATIONS MANAGEMENT

- Working Time Table
- Working in Control Office
- Power Plan & Engine Utilization
- HOER & Crew Planning
- Running rooms & crew booking point management
- Fuelling Installations Management
- Running staff training
- Load Trials
- Drivers Grading System
- Accident Classification ,definitions ,ART Ordering ,Role of Supervisors & officers at accident site Management.
- 140 ton Crane Construction & safety in operations

DIESEL LOCOMOTIVES

- Preventive maintenance schedules
- Latest design improvements in diesel locomotives to reduce failures on line.
- Design improvements in bogies to make them fit for high speed operation
- Brake system of diesel locos including working of expressors 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
- Testing Equipment required in sheds for governors and fuel injection pumps. Non destructive testing such as Zyglo & magnaflux
- Trouble shooting on locomotives running on the railways
- Fuel Economy on diesel locomotives
- Maintenance requirements of different assemblies like- Traction motor/ Traction Generator ,express or, Turbo supercharger, power assembly, cylinder head
- Thermal loading of engine components
- Under gear maintenance
- Suspension bearings, wheels
- Excitation system, transition, dynamic braking, carbon brushes ,relays & contactors
- Load Box Testing
- Imrovements made in ALCO locomotives
- DEMUs-types ,systems & trouble shooting
- Biodiesel, CNG
- Introduction to GM Locomotives and its systems

CARRIAGE & WAGON

- Coaching stock- preventive maintenance schedules in Coaching Depots including IOH.POH Schedules in shops
- Wagon Stock-preventive maintenance including ROH in depots and POH Schedule in shops .
- IRCA Rules for reject able defects
- ICF Bogies and their maintenance in sick line /shops
- Casnub Bogie & its modifications for high speed
- Corrosion repairs to coaching and goods stock
- Couplers & Draw gear,Train Parting & 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
- Passenger amenity items
- Coach Housekeeping
- Maintenance Pattern of freight trains including CC Rakes & Coaching stock maintenance including Revised policy Circular -4
- Neutral train Examination
- Ride Index

- Anti Telescopic features
- 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 Tank Wagons

WORKSHOPS

- 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

7/8

GOVERNMENT OF INDIA
MINISTRY OF RAILWAYS
(RAILWAY BOARD)
*****

RBE No.: 74 /2008

No. E(GP)2005/2/8 New Delhi, dt: 20 .06.2008

The General Managers,
All Indian Railways and Production Units.

Sub: Syllabus for 30% LDCE for promotion to Group'B' post of AME/AWM in Mechanical Department of Railways/Production Units.

Ref: Railway Board's letter No. E(GP)2005/2/8 dated 22.03.2007.

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With reference to Board's letter of even number dated 22.03.2007 prescribing revised syllabus for 30% LDCE for filling up Group'B' post of AME/AWM in Mechanical department, it is clarified that the topic of 'Official Language' may be included as part of General Knowledge in Paper I as provided for in terms of Board's letter No. Hindi-81/OL-14/12 dt.14.01.1982.

Santosh Mittal

(SANTOSH MITTAL)
Dy. DIRECTOR, ESTT.(GP)-II
RAILWAY BOARD

8/8

GOVERNMENT OF INDIA
MINISTRY OF RAILWAYS
(RAILWAY BOARD)
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No. E(GP)2005/2/08

New Delhi, dt: 12.09.2012

The General Manager,
N.W.Railway,
Jaipur.

(Kind Attn.: Shri Rajeev Singh, Dy.CPO(G))

Sub: Syllabus for 30% LDCE for promotion to Group 'B' post of AME/AWM in Mechanical Department of Railways/Production Units

Ref.: N.W. Railway's letter no.871E/1/Mech./Gr 'B'(LDCE-30%) dt.20/07/2012

As per Board's letter of even number dated 22.3.2007, the revised syllabus was prescribed for 30% LDCE for promotion to Group 'B' posts of AME/AWM in Mechanical Engineering Department of Railways/Production Units. The Part B of Paper II shall contain Professional portion of 100 marks in four sections representing various streams of Mechanical Branch i.e. Division & Workshop Management, Diesel Locomotives, Carriage & Wagon and Workshops, and candidates can attempt questions from their own discipline or from more than one discipline if he so desires to complete upto 100 marks. In this regard it is clarified that Part B of Paper-II (Professional portion) will have each section of 100 marks with a liberty to the candidate to attempt any one of them or a mix from different sections upto a total of 100 marks.

(Ashok Kumar)
Director/Estt.(GP)II
Railway Board

Copy to: General Managers (P), All Indian Railways (except N.W. Railway) and PUs for information.

ANNEXURE-C
1/3

GOVERNMENT OF INDIA
MINISTRY OF RAILWAYS
(RAILWAY BOARD)

No. E(GP)2022/2/4

New Delhi, dt 28/06/2022

The General Managers,
All Indian Railways and Production Units.

The DG/NAIR/Vadodara.

(Kind attn.: PCPOs/PFAs/Dy.CPO(G)/Dy.CAO(G))

Sub.: Promotions to Group 'B' posts on Indian Railways - Introduction of Centralized Computer Based Objective type examination (CBT) in all departments having Organised Services.

The Selections and Limited Departmental Competitive Examinations (LDCEs) for promotion to Group 'B' posts are presently conducted by the respective Zonal Railways/Production Units independently in terms of Recruitment Rules, provisions contained in the IREM VOl.I and instructions issued by the Board from time to time. As part of measures taken by the Board for bringing in reforms in the Selection process for promotion to Group 'B' posts on the Railways, instructions were issued vide Board's letter no.E(GP)2018/2/31 dated 19.03.2019 for including 100% objective type Multiple Choice Questions in the written examinations held as part of Selections and objective type pre-qualifying examination for LDCEs was also introduced.

2. Now, furthering these efforts, Board has decided to introduce **Centralized Computer Based Objective Type examination** for conducting 70% Selections and 30% LDCEs in all Department having Organised Services from the vacancy cycle beginning from w.e.f.1.1.2023.

3. To begin with LDCEs of current vacancy cycle, where Selections have since been conducted/or are being conducted and where LDCEs are yet to be notified or have been notified but written examination(Pre-qualifying) has not been held, will be conducted through Centralised CBT in all Organised departments as per modalities detailed as under:

i) The CBT shall be conducted by DG/NAIR who shall coordinate with the concerned Zones/PUs for its smooth conduct. All the Railways should advise the Department-wise, community-wise vacancies of their LDCE quotient of on-going vacancy cycle **to DG/NAIR latest by 11th July**. Herein, it is also clarified that the increase in the percentage of dispensation given to the Zones/PUs for inclusion of JTS/Gr.A vacancies in the vacancies assessed for Group 'B' selections in terms of instructions contained in Board's letter no.E(GP)2005/2/61 dated 20.06.2022 is applicable for assessment of

Group 'B' vacancies to be made for fresh vacancy cycle and the **vacancies already notified** are not to be amended.

ii) LDCE will be one stage only and will comprise of only 1 Paper with the following set up:

(a) Single paper of 150 marks comprising 100% Objective type Multiple Choice Questions with following distribution of marks:

(a)(i) Technical (Professional) subject	:	80 marks
(a)(ii) General Knowledge including optional Questions of 15 marks on Official language Policy & Rules	:	40 marks
(a)(iii) Establishment & Financial Rules	:	30 marks
(b) **Qualifying Marks**	:	**90**
(c) **Duration**	:	**3 Hours**

(iii) Question Paper will have 175 questions out of which 150 questions are to be attempted.

(iv) 1 mark will be allotted for every correct answer. There shall be negative marking for incorrect answers and 1/3rd of Marks allotted for each question will be deducted for every wrong answer.

(v) **Syllabus-** Syllabus for LDCEs for Organised services has already been prescribed by Board. However, as it is based on old pattern when there were two Papers - Paper-I and Paper-II in the LDCEs, the Centralised CBT shall be held from the said syllabus after amalgamating the topics prescribed in Paper-I and Paper-II of respective syllabi.

(vi) Optional Questions on Official Language policy and Official Language Rules in the LDCEs shall be included in terms of provision contained in Para 204.3 of IREM Vol.I.

(vii) Examination for 30% LDCEs will be held on a single day only. On the same day exam for the post of APO will be held in the second shift so that candidates who have appeared in exam for AMM/ACM/AOM in the first shift and also want to appear for APO can do so in second shift. Similarly, exam for AME and AEE will also be held in different shifts with a gap of 3 hours between both the shifts.

(viii) Railway-wise list of candidates along with marks scored by them in the written examination will be prepared by DG/NAIR assigned the task of conducting the exams and will be furnished to respective Zones/PUs.

(ix) Medical & Viva-voce of successful candidates will be conducted by the respective zones and thereafter final panel will be issued by them according to the vacancies on the basis of merit positively **within one month** from the date of receipt of result from NAIR.

(x)CBT for 30% LDCEs for a particular department for Zones/PUs will be held **on the same day** across Indian Railways. Thereafter **no request** for a supplementary exam shall be entertained in any condition.

4. The tentative schedule for finalizing the various stages in LDCEs of current vacancy cycle through CBT is given as under:

a) All notifications may be issued, if not issued by – **15th July**
b) Cut-off date for submission of options – **31st July**
c) Finalization of eligibility list and its notification - **15th August**
d) Pre Selection training to be completed by - **31st August**
e) Examination - **mid September**
f) Finalization of the panel (medical & viva including assessment of APAR) - **mid October.**

4.1 As the Railways are well aware, the need for sticking to the schedule stipulated for finalization of various stages of the LDCEs **is the essence** for successful conduct of Centralised CBT. Therefore, all the Railways/PUs should stick to the aforementioned schedule and no request for deviation in any case shall be entertained.

5. Modalities for introduction of Centralised CBT in Selections/LDCEs to be introduced from the fresh vacancy cycle beginning from 1.1.2023 shall be circulated separately.

6. There is no change other than the changes narrated above in the extant instructions issued from time to time in respect of other aspects of LDCEs held for promotion to Group 'B' posts.

M. Saluja
28/06/22

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