



मध्य रेलवे /Central Railway

मंडल कार्यालय/ Divisional Office  
कार्मिक शाखा/ Personnel Branch  
सोलापुर/ Solapur.  
दिनांक:-14/11/2024

संख्या: SUR/P/General/ Notification

सभी सम्बंधित : सोलापुर मंडल

विषय: Formation of panel for the post of AOM/ATM (Group-B) Level-8 PB-9300-34800 GP-4800/- against 70% selection quota in ~~Operating~~ Department Vacancy cycle from 01/01/2025 to 31/12/2026.

संदर्भ: मुख्यालय कार्यालय द्वारा जारी पत्रांक P/CR/HQ/E-GAZ/260/3/AOM (Selection 70%)-2 दिनांक 13/11/2024.

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मुख्यालय कार्यालय द्वारा जारी पत्रांक P/CR/HQ/E-GAZ/260/3/AOM (Selection 70%)-2 दिनांक 13/11/2024 की प्रति अनुलग्नकों के साथ परिपत्रित की जाती है। समस्त जानकारी के लिए उपरोक्त अधिसूचना सोलापुर मंडल की वेबसाइट [www.cr.indianrailways.gov.in](http://www.cr.indianrailways.gov.in) पर अपलोड किया गया है, इस प्रकार से विजिट कर About us > Divisions > Solapur > Personnel > Notification सेक्शन में देखें।

अनुलग्नक : यथोक्त।

(रमेश नायर)

सहायक कार्मिक अधिकारी  
कृते मंडल रेल प्रबंधक (कार्मिक) सोलापुर

प्रतिलिपि :

DRM, ADRM सोलापुर, कृपया सूचनार्थ।

मंडल सचिव: NRMU, CRMS, AIOBCREA & AISCSTREA:सोलापुर, कृपया सूचनार्थ।

## NOTIFICATION

CENTRAL RAILWAY

Headquarters Office,  
Personnel Branch,  
CSMT Mumbai.

No. P/CR/HQ/E-GAZ/260/3/AOM(Selection 70 %)-2

Date :13.11.2024

AGM, Secy to GM, SDGM, DGM, PCOM, PCCM, CCO  
CTPM, CPTM, CFTM, CSO, CAO(C)  
Sr. DPO BB, BSL, NGP, SUR, Pune  
DRM(P) BB, BSL, NGP, SUR, Pune  
SR. DOM/DOM BB, BSL, NGP, SUR, Pune  
Sr. DME/DME BB, BSL, NGP, SUR, Pune  
Sr. DEE(TRO) BB, BSL, NGP, SUR, Pune  
PZRTI/ BSL CHAIRMAN RCT BB NGP

Sub: Formation of panel for the post of AOM/ATM (Gr 'B') Level-8 /PB-9300-34800 GP-4800/- against 70% selection quota in Operating department- Vacancy cycle from 01.01.2025 to 31.12.2026.

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1. It has been decided to conduct a selection for promotion to Group 'B' services as AOM/ATM, Level-8 (PB-9300-34800 PB-2+GP-4800/-) against 70% selection quota in Operating Deptt for the vacancies as per selection procedure laid down in Railway Board's letter No. E(GP)88/2/111 dated 20/08/1991 E(GP)2018/2/31 dated 19.03.2019, No. E(GP)2022/2/4 dated 28.06.2022 & No. E(GP)2024/2/28 dated 08.10.2024.

\*\* Break up of number of assessed vacancy is as under:

Post	Scheme	UR	SC	ST	Total	PwBD *
AOM/ATM	70% selection	04	01	01	06	01

\* PwBD is not shown separately but included in the total vacancies.

\*\*The vacancies notified are provisional including Communal Break up & PwBD, may vary before the closing date of Online application.

Railway Board vide letter dated 18.08.2022, has introduced the reservation to PwBD in promotion from Gr C to Gr B in selection as well as in LDCEs. Hence, the category identified for the post of AOM/ATM is LD (as indicated by PHOD) for the vacancy cycle for the period from 01.01.2025 to 31.12.2026. If suitable candidate of the said PwBD category is not placed on the panel of 70% selection against the notification, this point of LD will be carried forward in 30% LDCE quota.

2. As per Para 2(i) of Railway Board's Rly. Bd's L. No: E(GP)2019/2/25 dated 27.12.2019, E(GP)88/2/28 dated 08.10.2024 & E(GP) 2005/2/87 dated 18.08.2015, this selection is open to:

(A) Following Gr 'C' staff who have completed 3 years Non fortuitous service in Level-6 /PB2 + GP Rs. 4200(including regular service rendered in the corresponding pre revised grades) and above as on 01.01.2025:

- (i) All Non Ministerial Group 'C' staff (Non Running staff) working in Transportation (Traffic) department.
- (ii) Ministerial Group 'C' staff working in Transportation (Traffic) department who have opted for further advancement in the department itself.

(B) Non Ministerial Running Gr. 'C' staff working in Transportation (Traffic) department who have completed 3 years Non fortuitous service in Level-5 /PB1+ GP 2800(including regular service rendered in the corresponding pre revised grades) and above as on 01.01.2025.

For the purpose of counting service for eligibility, time spent by Railway servants during pre-requisite training immediately before appointment to working post is counted as qualifying service (Railway Board's letter No. E(NG)I-2019/PM1/24 dated 25.06.2019).

Grade Pay in MACP will not be considered.

4. It has been decided to call applications online from the applicants and scrutiny of service particulars will also be done electronically at each level i.e division/workshop/Unit and Headquarter.

The employees may be advised to take utmost care while filling up of the proforma since incomplete/wrongly filled proforma will be rejected and no representations in this regard will be entertained.

The tentative schedule will be as under :-

Sr.No.	Subject	Scheduled date
1)	Date to open GOAL window	14.11.2024
2)	Last date to apply by the employee	03.12.2024
3)	Last date to forward the application by respective depots to their Bill preparing Unit.	05.12.2024
4)	Last date to forward the application after verification by Bill preparing Unit to HQ's office	18.12.2024
5)	Date of issue of Eligibility list	31.12.2024
6)	Date to raise objection on Eligibility list , if any	06.01.2025
7)	Pre-promotional Training for 60 Hrs./15 working days	In between 15 th Jan 2025 to 10 <sup>th</sup> Feb 2025
8)	Date of Examination (CBT)	09.03.2025
9)	Supplementary Examination	23.03.2025

The supplementary Examination will be held only for those candidates who could not appear in the main examination for reasons beyond their control, authorization of which will be decided by the Competent Authority.

## 5. MODE OF APPLICATION

### A: For staff of Open Line, Construction Unit and Workshop)

#### (I) HOW TO APPLY

The eligible staff should submit their application through **ONLINE MODE** only for which following steps should be followed.

1. Visit the Railnet site 10.31.3.3 /GOAL1/.
2. Go through the **NOTIFICATION**.
3. Click on **REGISTER**. Select Exam Code: **OPERATING/AOM/SELECTION/2025-26**.  
(Select Exam Code with utmost care )

4. Fill up **PF No as User ID**, Your Mobile No. (the Mobile No. linked with HRMS) and Registered Email and **Submit**.
5. You will get a default Password generated and display as 12345, immediately on another screen will show for change of password .
6. Now go to **Home Page** and select **APPLY/LOGIN**
7. Again use your **PF No. as User ID** and **Password**.
8. Fill up the Application form with utmost care and after completing all the fields, click on **Submit** tab.
9. Take a print out and keep it for your record.

This will complete the submission of application for the candidate.

#### (II) HOW TO FORWARD APPLICATION.

For login, **each Division/Workshop/ Construction Unit** Incharge will obtain User ID and password from **APO(Gaz)**. After login **Division/Workshop/ Construction Unit Incharges** can view the details of applicants working under his control. To forward the application, just Click on **FORWARD** of each of the application. On Last date of submission of application by the candidate, respective **Division/Workshop/ Construction Unit Incharges** can get a summary of the applications which he/she has forwarded. He/She should take a print and keep it for the record with the signature of the Establishment incharge.

#### ( III ) HOW TO VERIFY THE APPLICATIONS

For login, Office Superintendent of Personnel deptt of the **Division/Workshop/ Construction Unit** with whom Service Registers are maintained will obtain User ID and password from **APO(Gaz)**. After login, OS can **View** as well as **Edit** the details of all applicants whose Service Registers are maintained in that office. After verifying Service Particulars of each employee from Service Record, OS can change it in Edit application, if there is / are any deviation/s. He/she should put **sign ✓ in the box** if he made any change in the particulars filled by the applicant and same remarks should be added in the remarks column. After verification to forward the application just click on **FORWARD BUTTON** of each of the application.

#### ( IV ) HOW TO VALIDATE THE APPLICATIONS

For login, APO/Head of the Construction Unit with whom Service Registers are maintained will obtain User ID and password **from APO(Gaz)**. After login APO/Head of the Construction can view all applications whose Service Registers are maintained in that office and verified by his Office Superintendent. As per the Eligibility conditions for the selection for the post, APO/Head of the Construction Unit will valid or invalid the application by clicking on the **Valid/Invalid**. Then all the applications will be automatically forwarded to Headquarter for further scrutiny. On Last date of submission of application in Headquarter, Divisional Personnel Deptt / Workshop / Construction unit can get a summary of the applications he has forwarded. He/She should take a print and keep it for his/her record.

#### **B: For staff working in any other Railway/Non Railway Organisation on Deputation**

The staff working in RE organization or any other Railway/Non Railway Organisation on Deputation etc. should also login into as per Para 5 of A and follow the steps from 1 to 9. One

copy of the print out of the application should be verified by the concerned Bill preparing Unit i.e where SR is maintained and same should be sent to APO (Gaz) by Ordinary dak or per bearer so as to reach on or before 18.12.2024 and one copy should be forwarded to the Division or Workshop where the lien is maintained on Central Railway. Division/Workshop is advised to forward the applications received from the employees working in any other Railway/Non Railway Organisation on Deputation etc. by confirming lien maintained on that Division/Workshop/ Construction Unit Incharges on or before 18.12.2024.

For any queries regarding login/ forwarding/Editing/Validating application please contact on Phone no: 011-53228(Office landline No) / Mobile Phone No:- 8828110621-APO(Gaz) (from 10.00 hrs to 18.00 hrs on working days)

6. After receipt of applications through online mode of all the volunteers, appearing for the selection, the same will be further scrutinized at Headquarters' level and the list of eligible volunteers will be published later. The final eligibility list will also be notified on RAILNET site 10.31.3.3/pers on 31.12.2024. The Objection on the eligibility list, if any, should be made on or before 06.01.2025.

In terms of Railway Board's letter No.E(GP)2022/2/4 dated 07.10.2022 & No: E(GP)2018/2/31 dated 19/03/2019, the following pattern of examination has been adopted for the 70% selections to be conducted through Centralised Computer Based objective type examination (CBT) in all departments. In terms of Railway Board's letter No: .E(GP)2018/2/31, dated 19/03/2019 & 04.12.2023 the written examination shall comprise of one paper which shall have 100% Objective Type Multiple Choice Questions only. The paper will be of 100 marks.

a)Professional Subject including optional Questions on Official language policy	70 marks
b) Establishment and Finance Rules	30 marks
c) Qualifying marks	60 marks
d) Duration of Examination	02 Hrs

1(one) mark will be allotted for every correct answer.

There will be no negative marking for incorrect answers (Authority: Rly Bd's No. E(GP)2024/2/28 dated 08.10.2024).

Railways-wise list of candidates along with marks scored by them in the written examination will be prepared by DG/NAIR.

Medical & Viva-voce of successful candidates will be conducted by the respective Zones and Panel will be prepared.

7. The candidates, who qualify in written Test/CBT are required to undergo prescribed medical Examination in terms of Para 530 (a) ,531 & 532 (1) ) of IRMM Vol.I before allowed to appear for viva-voce, and if found fit as per Railway Board's letter No. E(GP)80/2/8 dated 31/10/1991 they will be called for viva voce.

In terms of Para 506 of IRMM (Vol I 2000 Edition), if a candidate is found medically unfit, an appeal against such a decision can be made within one month of the date of communication of medical unfitness and no appeal will be considered after the expiry of one month.

8. A copy of syllabus for professional subject for 70% selection in Gr B posts along with syllabus for Establishment and Finance prescribed by Board vide letter No: E(GP) 2022/2/4 dated 07.11.2022 is enclosed as Annexure 'A' for information and guidance of the candidates.

9. Since in the assessment post is reserved for SC & ST, Pre-promotional training will be imparted to

eligible SC & ST candidates (Railway Board's letter No. E(GP)2010/2/39 dated 28.08.2019).

10. A senior officer in all the offices & establishment may be nominated who will be responsible to ensure that this notification is brought to the notice of all the candidates/eligible employees working in their respective organizations. In case, any employee has been posted to another organization on transfer/deputation basis or working against Ex. cadre post, it will be the responsibility of their parent office / Establishment to ensure that the notification is sent to that Establishment / Organization enjoining upon it to bring the same to the notice of concerned employee(s). Application of these employees, if any, should be obtained from these organizations and sent to this office duly verified for further scrutiny of their eligibility (Para 3(iii) of Railway Board's letter No. E(GP)87/2/72 dated 27/12/1994) on or before last date i.e. 18.12.2024.

11. The SRs, Leave a/c in favour of the employees, who apply in response to this notification should be updated in all respect (i.e. Educational Qualification) and kept ready to be sent to APO(Gaz), PCPO's office, at a short notice. Similarly, their APARs (in original) or attested copy of E-APARs if filled online for the last 7 years i.e. fiscal period ending 31/3/2018 to 31/03/2024 duly completed in all respect and countersigned by accepting authority i.e. HOD, DRM, ADRM etc., and also by disposing representations, if any, may also be kept ready to be sent to APO(Gaz), PCPO's office, at a short notice, whenever required, per bearer. While forwarding Service Register of the candidates belonging to reserved community, it may be ensured that Caste Certificate in prescribed format is available in their SR.

12. To ensure that the eligible staff avails the opportunity for appearing for selection, wide publicity should be given. Supervisor/Incharge should bring to the notice of all staff working under them about this selection.

13. As per Para 1 of PCPO's letter No.P/CR/HQ/RP/601-policy dated 05.08.2022 "Person belonging to reserved communities, who are appointed against selection on merit and not owing to reservation, will occupy the unreserved points and they should not be shown against reserved points".

The panel will be purely on provisional basis subject to further orders that may be passed by the Supreme Court in the Jarnail Singh batch of cases

Kindly acknowledge the receipt of this letter

  
(Ajay Raj)  
APO(GAZ)  
I-PCPO

DA :- As above

Copy to: PCPO - for kind information pl.

CPO(IR) CPO(G) - for kind information pl.

APO(T)

Copy to SDGM (V) w.r.t his letter No. 2011/03/V2/MISC dated 03/03/11

**This information is available on RAILNET site 10.31.3.3/pers**

GOVERNMENT OF INDIA  
MINISTRY OF RAILWAYS  
(RAILWAY BOARD)

No. E(GP)2022/2/4

New Delhi, dt:07/11/2022

The General Managers,  
All Indian Railways/PUs.

(Kind Attn.:All PCPOs/PFAs/Dy.CPO(G) & Dy.CAO(G))

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

Board has prescribed syllabus for written examinations held as part of 30% LDCEs for promotion to Group 'B' posts in all Organised Services. Besides this, syllabus for 70% Selection for promotion to Group 'B' post of APO has also been prescribed by Board. Now, in the context of introduction of Centralised CBT for 70% Selections and 30% LDCEs for promotion to Group 'B' posts, Board has prescribed syllabus of 70% Selections and have also modified the syllabus for 30% LDCEs for all Group 'B' posts in Organised Departments. Similarly, syllabus for Establishment & Financial Rules has also been prescribed.

2. A copy each of the Syllabus for professional subjects prescribed by Board for 70% Selections and 30% LDCEs for promotion to Group 'B' posts in all Departments having Organised services along with the syllabus for Establishment & Financial Rules is enclosed for information. These syllabi are applicable for Selections & LDCEs to be conducted w.e.f.1.1.2023.

DA:As above

  
(Meenakshi Saluja)  
Dy. Director, Estt.(GP)-III  
Railway Board  
Ph. No. 233047250  
E.mail ID- meena.1964@gov.in

## 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, Canons 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

## **6. SYLLABUS FOR 70% SELECTION & 30% LDCE FOR PROMOTION TO GROUP 'B' POSTS OF AOM & ACM IN THE TRAFFIC (TRANSPORTATION AND COMMERCIAL) DEPARTMENTS**

### **A. TRAFFIC (TRANSPORTATION)**

**I. GENERAL** Hierarchical set up and line of control of Operating Department at the Divisional, Zonal and Railway Board level.

### **II. TRAFFIC, TRAIN AND POWER CONTROL ORGANIZATION**

- Objective and set up of Control Offices.
- Functions of Control Organization pertaining to Train Ordering, Punctuality, Maintenance of Operating Statistics, Wagon & Loco Stock Management, Blocks Management and Management during Accident & Unusual Situations/ Circumstances & Disaster Management.
- Duties and responsibilities of Chief Controllers, Dy. Chief Controllers, Sections Controllers, TNCs, Recorders and their Coordination with Lobbies, Station & Yards.
- Freight Train Operations (FTO) & Freight Train Ordering Principles with or without coordination with Crew Lobbies.
- Special Instructions during abnormal conditions of working & during emergencies like Cyclone, Civil Disturbances, and Accidents etc.
- Daily Performances Reporting from Stations/Yards/Sheds to Area Sub-control, Area Sub-control to Divisional Control Office and from Divisional Control Office to Zonal Control Office and from Zonal Control Office to Railway Board.
- Basic and important Documents/Registers maintained in Control Office and their basis.
- Periodical Performance Reporting and Analysis of Operating Performance along with compilation of Statistical Data.
- Power Control Organization - Engine and Crew Scheduling.
- Factors affecting Wagon & Engine utilization and methods of improvements.
- Working pertaining to issue of Caution Orders from Nominated and Notice Stations.
- Liaison / Co-ordination with Control Establishments of other Departments like Engineering, Traction Control, Signaling Control, Mechanical etc.

### **III. FREIGHT TRAIN OPERATIONS**

- Functioning of Crew & Guard Lobbies.
- Integrated Lobbies.
- Crew Management: Assessment of Crew Requirement
- Running Room and its Management.

- Engine Utilization aspects requiring special attention: -
  - ❖ Engine Crew and Train Crew Schedule.
  - ❖ Rules regarding Outstation, Home Station Rest etc. to ensure observation of 10 Hour Rule or Rules applicable from time to time, Role of LI and Crew Control.
  - ❖ Power Plan: Assessment of Loco Requirement.
  - ❖ Movement of Dead Locomotives.
  - ❖ Management of Maintenance Schedule of Locomotives.
  - ❖ Shed and Traffic Outage of Locomotives.
  - ❖ Specific Fuel Consumption and Assessment of Fuel Requirement.
- Shunting Operations in Yards or Road side Stations.
- Working of Marshalling Yards & Transshipment Points.
- Causes of Yard and Section Congestion and remedial strategies.
- All India Marshalling Order and Railway-wise Marshalling Orders - Principles and Procedures.
- Rules regarding Carriage of Explosive and other General Goods.
- Preferential Traffic Schedule, Priority within same class and ODR.
- Indent Allotment and Supply of Freight Stock at Stations, Premium Indents and procedure to place Premium Indents, Allotment of Rakes in case of Quota Restrictions.
- Notified Stations.
- Wagon Stock Management for Loading and Unloading Operations.
- Imposition of Operating Restrictions on Wagon Loading and Acceptance of Wagon Indents, Cancellation and Withdrawal of Indents.
- Observance of Civil ban and Carriage of Contraband Goods etc,
- Important Documents/Registers maintained in Yards & at Stations.
- Familiarity with G&SR, Accident Manual, Operating Manual, Block Working Manual, Red Tariff, IR Act, 1989 etc.
- Wagon Turn Round Time (WTR) & Factors affecting Optimum Utilization of the Wagon Fleet and methods of improvement.
- Running of Unit Trains and formation of Captive Rakes.
  - Block Train Operations.
  - Nominated Day Loading.
  - Rationalization Scheme of movement of Freight Traffic for avoiding congestion by specific routes.
  - Merry-Go-Round (MGR) System.
  - Engine on Load (EOL) System.
  - Mini/Two Point/Multi Point Rake System.
  - Container Train Operation, Hub and Spoke system.
- Supervision and control over movement of Special type of Stock, ODC

Consignments.

- Maximum Moving Dimensions. Wagon Census.
- IT applications: -
  - ✓ Freight Operations Information System (FOIS): Rake Management System(RMS), Terminal Management System(TMS)
  - ✓ ICMS and Coaching Operations Information System(COIS)
  - ✓ COA
  - ✓ CMS
  - ✓ SATSANG
  - ✓ RTIS
- Relevant Rules and important Policy guidelines.
- C&W examination for STR, Intensive, Round Trips, Premium and Close Circuit Rakes.
- Sicklines and TXR Repair Depots including POH & ROH Depots and their functions.
- Supply of Coaches/Wagons to C&W shops for POH and special repairs, Cycle period of different Stocks and Workshop Feed Management.
- Working of Travelling Traffic Cranes for handling heavy Consignments at Intermediate Stations.
- Detaching of Sick Wagons at enroute Stations and their repair and clearance.
- Interchange transactions - Junction returns of Inter Railway Inter change Traffic.
- Weighment of Rakes, Electronic In-Motion Weighbridge, Automatic Pre Weighbin System, Nominated and Alternative Weighbridges, Load Adjustment, Exempted Commodities, Maintenance of Weighbridges and Role of Weights and Measures Department, Metrological Department and other Railway Departments, Integration of Weighbridge with FOIS.
- MIL RAIL.
- Permissible Axle Loads, Heavy Haul and Long Haul Operations, factors affecting Axle Load, Rules regarding Heavy Haul and Long Haul Operations.
- 'Payload' to 'Tare' Ratio of Wagons; Factors affecting Payload and Tare Weight.
- Concept of Convoy Trains.
- Foreign Traffic and its components/pattern.

## **Operating Statistics**

- Definition, meaning and methods of compilation of the Primary, Fundamental and Derived units.
- Engine Tickets and maintenance of Engine Tickets
- Analysis of the Operating Statistics.
- Important Operating Efficiency Indices, their meaning and uses, WTR, NTKM, GTKM, Average Speed etc.
- Operating Ratio: Different types of Expenditures and Plan Heads, Revenue Earnings and Non-Revenue Earnings.

#### **IV PASSENGER TRAINS OPERATIONS**

- General Principles and Methodology of Time Tabling of Passenger Trains. Zero Based Time Tabling.
- Platform and Pit Occupancy Planning and Preparing Charts.
- Consultative Machinery for revision of Time Table at Divisional, Zonal and Railway Board levels.
- Publication of Working Time Table, Public Time Table & Sheet Time Table, Components of WTT and PTT.
- Punctuality of Passenger Carrying Trains.
- Factors affecting Punctuality of Passenger carrying Trains and methods of improving the Punctuality, Monitoring of Asset Failures and Planning of blocks for Track, Signal and OHE maintenance. Corridor Blocks, Integrated Maintenance Blocks.
- Augmentation of Train Loads for meeting Traffic requirements, Rules of Marshalling and Slip Coaches etc.
- Running of Tourists Coaches, Special Carriages and Special Trains.
- Planning & Running of Holiday Specials, Mela Specials, Tourist Specials, etc.
- Introduction of new Trains, extension of Train runs, introduction of Through and Sectional Coaches.
- Preparation of Engine Links, Driver/Guards Links & Rake Links.
- Commuter Service Operations.
- Vande Bharat Trains
- High Speed Corridors and Trains.

#### **V. WORKING OF TRAINS GENERALLY AND GENERAL AND SUBSIDIARY RULES**

- Responsibility and Function of Engine Crew before starting and while on run and during abnormal/unusual situations.

- Responsibility and function of Guard before starting and while on run and during abnormal/unusual situations.
- Role & Responsibility of Station Staff in Working of Trains.
- Various Systems of Working of Trains and Conditions for Granting LC.
- Classification of Stations, Standards of Interlocking, Signaling Systems, Equipment & their working.
- Station Working Rules and Block Working.
- Level Crossings.
- Line Capacity, Method of Calculating Line Capacity, Measures for augmenting it, Token less working, Centralized Traffic Control, Doubling, Automatic Block, IBS / IBH, Advanced Signaling and Interlocking.
- Combined Train Report, Guard's Rough Journal Book, Vehicle Guidance, Driver's Ticket, Brake Power Certificate etc.
- Rules regarding Marshalling of vehicles on Passenger, Mixed and Freight Trains.
- Air Brake Systems along with Continuity Test.
- Precautions to be taken on Ghat Sections.

## **VI. ACCIDENTS AND SAFETY ORGANIZATION**

- Accidents, Types and their Classification, Causes and their Prevention.
- Functioning of Railway Safety Organization.
- Chief Commissioner of Railway Safety Organization and his Functions.
- Rules for reporting Accidents.
- Accident Relief Medical Equipment (ARMEs) & Accident Relief Trains (ARTs).
- Role & Responsibilities of various Officials and Departments during Accidents.
- Responsibility of the Control Organization Station Masters and Traffic Staff on the affected Section.
- Accidents Enquiries and DAR action against Staff held responsible for the Accidents, minimum recommended penalties in case of various Accidents.
- Review and Analysis of Accidents for taking Corrective Measures.
- Disaster Management on Indian Railways, Disaster Management Act, 2005, Disaster Management Plan, Role of NDMA and NDRF.

## **VII. ACCIDENTS PREVENTION**

- Aptitude Testing of Station Masters, Loco Pilots and Motor Men, Components of Aptitude Testing.

- Psycho-Technical Analysis in case of Accidents attributed to Human Failures.
- SPAD and its Prevention.
- Train Operation during Fog, Fog PASS.
- Improved Technological Aids to prevent Human Errors like:
  - Improved Signaling and Inter-locking arrangement
  - SM's central and inter cabin control over route
  - Track circuit and Axle counters
  - Route Relay Inter-locking
  - Solid State Interlocking/Electronic Interlocking
  - Automatic Train Protection (ATP), KAVACH (TCAS - Train Collision Avoidance System)
  - Wheel Impact Load Detector (WILD)
  - End of Train Telemetry (EOTT) and its functions.
  - Centralised Traffic Control (CTC)
  - On Board Monitoring of Rolling Stock (OMRS).
- Refresher Courses, Safety Camps, Safety Campaigns and Safety Drives.
- Planning of PME and Refresher of Safety Category Staff.

## **VIII . PLANNING ON THE RAILWAYS**

- Set up & Functions of Planning Wing on IR.
- Corporate Plan and Annual Plan, National Rail Plan, Mission 3000MT, National Logistics Policy.
- Traffic Survey.
- Calculation of Line Capacity.
- Traffic Planning and Augmentation of Line Capacity Works.
- Station Redevelopment.
- Doubling, Bypass & Flyover Planning Works.
- ESP, SIP, DPR, ROR etc
- Container Rail Terminals.
- Gati Shakti Terminals.
- Minimum Essential Facilities at Goods Sheds and Stations.