

INDIAN RAILWAYS
DMW / PATIALA

**Sub: Syllabus for the selection in the category of JE (Machinist), Level-6
Against 25% IMA quota.**

The syllabus for the selection in the category of JE (Machinist), Level-6 against 25% Ranker quota is given below:

1 Technical Knowledge

- i) Detailed knowledge of tools used on machine carbide VS HS3 tooling. Geometry of tool cutting parameters used with various tools.
- ii) Engineering drawing of simple components in first angle, third angle and isometric view.
- iii) Properties of common material used in shop.
- iv) Knowledge of machines, machining and heat treatment processes.
- v) Advantages of CNC machines and its major applications.
- vi) Various safety precautions to be adopted on shop floor while working in shop or using important equipment such as moving machinery, EOT Cranes, Fork Lift.
- vii) Importance of planning in the manufacturing area.
- viii) Use of jigs and fixtures.
- ix) Use of computers in production, planning as well as office control (Basic concept only).
- x) Knowledge of shop practice, planning time office and Production Control Organisation etc.
- xi) Need for quality and its implications.
- xii) Knowledge of Electric Loco & DETC and its components.
- xiii) Knowledge of all types of ISO such as ISO - 9001, ISO-14001, ISO 18001, ISI 50001, ISO-3834, IRIS & TQM.

2 SHOP MANAGEMENT:

- a) Knowledge of function of time office and procedure order for gate passes.
- b) Knowledge of incentive scheme, work order system booking of labour hours etc.
Production planning and control and workshop documents processing.
- c) Stock and non-stock and procedure for indemnity and drawl of stores and return of serviceable and scrap items to stores Depot.
- d) Various registers maintained in shops and their need.
- e) Stock verification authorities and periodicity.

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- d) Various safety measures to be follow on the shop floor in general and for various machines and equipments in particular
- e) Staff protective clothing and their entitlements.
- f) Methods to control consumption of stores and electric energy
- g) Knowledge about Inventory control inactive & surplus items

3 GENERAL & ESTABLISHMENT KNOWLEDGE:

- a) Knowledge about current affairs on Indian Railways Organization and its system.
- b) D & AR Rules: Various definitions, the applicability, suspension and issue of minor penalty charge sheet appeals.
- c) Rules for engagement and discharge of casual labours/substitutes and Knowledge of relevant sections in the Industrial Disputes etc.
- d) Employee's compensation Act.
- e) Factory Act.
- f) Hours of employment Regulations.
- g) Various types of leave which can be granted to staff.
- h) Railway Service Conduct Rules.
- i) General knowledge about working in various other departments in Railway.
- j) Staff Council and Rules of its formation/working.
- k) Cannons of financial propriety.

4 MATHEMATICS:-

Question will be asked on Mathematics of High school standard.
Arithmetic, Algebra, Trigonometry.

5 राजभाषा:

1. भारत सरकार का राजभाषा नीति का सामान्य परिचय।
2. राजभाषा अधिनियम 1963 तथा राजभाषा संशोधन अधिनियम 1976.
3. राजभाषा के संबंध में कार्यालयीन नीति/गृहमंत्रालय के आदेश, प्रोत्साहन योजनाएँ, पुरस्कार आदि

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