

HAL Management Trainee Exam Pattern

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Parts	Name Of The Subjects	Number Of Questions	Time Duration
Part-I	General Awareness	20	2 Hours 20 Minutes
Part -II	English And Reasoning	40	
Part -III	Concerned disciplines	100	

HAL MT DT Syllabus - Topics Wise

General Awareness

- Indian Constitution
- History
- Culture
- Important Financial & Economic News
- Science – Invention & Discoveries
- Politics Economic Science
- Current Events
- Geography
- Books
- Sports and Games
- Awards and Honors
- Important Days
- Current Affairs – National & International
- Abbreviations
- Important Days
- Budget and Five-Year Plans
- Current Affairs – National and International
- Countries and Capitals
- International and National Organizations
- Science and Technology
- Science – Inventions & Discoveries
- Indian National Movement
- Sports
- Abbreviations
- General Policy
- Indian History
- Books and Authors
- Awards and Honors
- Capitals of India
- Indian Economy

English And Reasoning

- Antonyms
- Essay Writing
- Synonyms
- Fill in the Blanks
- Idioms & Phrases
- Comprehensions
- Drafting
- English Grammar
- Vocabulary
- Precise Writing
- Odd Man Out
- Numbers and Ages
- Indices and Surds
- Pipes and Cisterns
- Simplification and Approximation
- Averages
- H.C.F. and L.C.M.
- Time and Distance.
- Problems on Trains.
- Average.
- Boats and Streams.
- Data Interpretation.
- Number Systems.
- Coding and Decoding
- Input & Output Devices
- Ratio and Proportion.
- Simplification.
- Problems on Ages.
- Time and Work.
- Discounts
- Areas
- Percentages
- Boats and Streams
- Probability
- Time and Work Partnership
- Simple & Compound Interest.
- Profit and Loss.
- Mixture and Alligation
- Percentages.

Mechanical Engineering

- The Strength of Materials.
- Operations Research.

- Joining Processes.
- The design of Machine Elements.
- Refrigeration and air-conditioning.
- Thermodynamics.
- Theory of Machines.
- Engineering Mechanics.
- Tool Engineering.
- Thermodynamics and Statistical Mechanics.
- Vector Calculus.
- Numerical Methods.
- Differential Equations.
- Calculus.
- Probability & Statistics.
- Turbomachinery.
- Forming Processes.
- Metal Casting.
- Fluid Mechanics.
- Operations.
- Engineering Materials.

Electrical Engineering

- Analog and Digital Electronics
- Systems and Signal Processing
- Power Electronics and Drives
- Electrical Machines
- Power Systems
- Electrical and Electronic Measurements
- Electrical Materials
- Computer Fundamentals
- Basic Electronics Engineering
- Electric Circuits and Fields
- Control Systems

Electronics

- Electrical and Electronic Measurements.
- Control Systems and Process Control.
- Analytical, Optical Instrumentation.
- Basics of Circuits and Measurement Systems.
- Transducers, Mechanical Measurement, and Industrial Instrumentation.
- Signals, Systems, and Communications
- Digital Electronics.
- Analog Electronics

Civil Engineering

- Steel Structures.
- Engineering Mechanics.
- Solid Mechanics.
- Fluid Mechanics.
- Transportation Engineering.
- Foundation Engineering.
- Water Resources Engineering.
- Surveying.
- Structural Analysis.
- Construction Materials and Management.
- Concrete Structures.
- Geotechnical Engineering.
- Hydraulics.
- Irrigation.
- Hydrology.
- Environmental Engineering etc.

Computer Science

- Major topics included in any CSE course are Operating System
- Design and Analysis of the Algorithm
- Programming Languages
- Microprocessor
- Computer Software
- Database Management System
- Mobile Communications
- Cryptography and Network Security
- Performance Evaluation, etc

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