

# **HPCL Syllabus**

## **HPCL General Aptitude Syllabus**

### **HPCL Project Engineer Syllabus for Quantitative Aptitude**

- Mixture and Alligation
- Numbers
- Partnerships
- [Percentage](#)
- Permutations and Combinations
- Pipes and Cistern
- [Probability](#)
- [Profit and Loss](#)
- Races and Games
- Boats and Streams
- Calendar
- Chain Rule
- Clock
- [Decimal Fractions](#)
- [H.C.F. and L.C.M.](#)
- Height and Distance
- Logarithm
- Series – Odd Man Out
- Series – Find Missing Number
- [Simple Interest](#)
- Compound Interest
- Simplification
- Square Root and Cube Root
- ~~Stocks and Shares~~
- Surds and Indices
- [Time and Distance](#)
- [Time and Work](#)
- Trains

### **HPCL Officer Syllabus for English Language**

- Grammar and vocabulary
- Spotting error
- Comprehension
- Passage making
- Jumble word
- Sentence framing
- Fill in the blanks etc

### **HPCL Law Officer Syllabus for General Knowledge**

- [Current Affairs](#)





- Budget and Five Year Plans
- [Sports](#)
- [Books and Authors](#)
- [Awards and Honors](#)
- Science – Inventions and Discoveries
- Abbreviations
- [Important Days](#) etc
- [Computer Knowledge](#)
- Computer Proficiency
- Desktop Applications
- Internet Surfing
- MS Office (Word, Excel, Access, and PowerPoint)
- E-mail Management.
- Windows Operating System.
- Knowledge in operations of Computer

### HPCL Syllabus for Logical Reasoning

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- Coding and Decoding
- Syllogism
- Conclusions and Decision Making
- Similarities and Differences
- Jumbling
- Mathematical operations
- Relationships
- Analogies
- Directions
- Statement – Arguments and Assumptions
- Alphabetical and Number Series
- Venn Diagram
- Data Interpretation and Sufficiency
- Analytical reasoning
- Classification

### HPCL Syllabus – Technical / Professional Knowledge

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#### Mechanical

- Engineering Mechanics.
- Applied Mechanics and Design.
- Mechanics of Materials.
- Theory of Machines.
- Fluid Mechanics and Thermal Sciences.
- Machine Design.
- Casting, Forming and Joining Processes.
- Heat-Transfer.
- Engineering Materials.
- Machining and Machine Tool Operations
- Materials, Manufacturing and Industrial Engineering.





- Design of Steel Structures.
- Design of Concrete & Masonry Structures.
- Building Materials.
- Solid Mechanics.
- Construction Practices, Planning & Management.
- Fluid Mechanics.
- Hydraulic Machines & Hydro Power.
- Open Channel Flow.
- Pipe Flow.
- Environmental Engineering.
- Transportation Engineering
- Water Resource Engineering.
- Solid Waste Management.

### Electrical

- Electronics Devices.
- Power Systems.
- Electrical Machines.
- Analog and Digital Electronics.
- Network Analysis.
- Electromagnetic Theory.
- Electrical Instrumentation.
- Control Systems.
- Power System Protection.
- Utilization of Electrical Energy.
- Switch Gear and Protection
- Power Electronics & Drives.
- The Power System Analysis & Control.

### Instrumentation

- Mechanical Measurement
- Basics of Measurement Systems
- Transducers, Circuits
- Industrial Instrumentation
- Process Instrumentation will be asked.
- Analog / Digital Electronics

### Chemical

- Heat Transfer.
- Chemical Reaction Engineering.
- Plant Design and Economics.
- Chemical Technology.
- Process Calculations and Thermodynamics.
- Fluid Mechanics and Mechanical Operations.
- Mass Transfer.

## **Posts**



- Written test will consist of multiple choice objective type
- Question paper will consist of General Aptitude and Professional Knowledge questions.
- The examination will be conducted in English or any Languages.
- There will be no negative marking

<u>Type of Exam</u>	<u>Name of the Subject</u>
General Aptitude	<ul style="list-style-type: none"><li>· Logical Reasoning &amp; Data interpretation</li><li>· Quantitative Aptitude Test</li><li>· English Language</li><li>· General Knowledge</li></ul>
Technical / Professional Knowledge	<ul style="list-style-type: none"><li>· Mechanical</li><li>· Civil</li><li>· Electrical</li><li>· Instrumentation</li><li>· Chemical</li></ul>

