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HPCL Project Engineer Exam pattern

S.No	Type of Exam	Name of the Subject
1.	Part – I General Aptitude	<ul style="list-style-type: none">• Logical Reasoning & Data interpretation• Quantitative Aptitude Test• English Language
2.	Part – II Technical/ Professional Knowledge	<ul style="list-style-type: none">• Mechanical• Civil• Electrical• Instrumentation• Chemical

HPCL Project Engineer Syllabus

Part- I

General Aptitude

- Percentages.
- Ratio and Proportion.
- Cube Roots.
- Square Roots.
- Number Systems.
- Simplification.
- H.C.F. and L.C.M.
- Average.
- Races and Games.
- Problems on Ages
- Pipes and Cisterns.
- Boats and Streams.
- Mixture and Alligation.
- Time and Distance.
- Partnership.
- Time and Work.

- Discounts
- Problems on Trains.
- Mensuration.
- Simple & Compound Interest.
- Profit and Loss.
- Data Interpretation.

Logical Reasoning

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

English Language

- Para Completion
- Error Correction (Underlined Part)
- Spelling Test
- Passage Completion
- Sentence Arrangement
- Fill in the blanks
- Gerunds
- Identify the Errors
- Tense
- Synonyms
- Prepositions
- Active and Passive Voice
- Transformation
- Sentence Improvement
- Joining Sentences
- Error Correction (Phrase in Bold)
- Articles
- Spotting Errors
- Substitution

- Adjectives
- Plural Forms
- Odd Words
- Prepositions
- Suffix
- Idioms and Phrases
- Homophones
- Identify the Sentences
- Nouns
- Synonyms
- Antonyms
- Sentence Completion
- Prefix
- Sentence Pattern
- Tag Questions

Part- II

Civil Engineering

- Transportation Engg.
- Soil Mechanics.
- Hydraulics.
- Engineering Mechanics.
- Environmental and Irrigation Engineering.
- Building Materials
- Quality Surveying.
- Surveying.

Mechanical Engineering

- Theory of Machines.
- Engineering Mechanics.
- Tool Engineering.
- The Strength of Materials.
- Vector Calculus.
- Calculus.
- Fluid Mechanics.
- The design of Machine Elements.
- Refrigeration and air-conditioning.
- Thermodynamics.
- Numerical Methods.
- Engineering Materials.
- Probability & Statistics.
- Differential Equations.
- Operations.

Electrical Engineering

- Electric Circuits and Fields
- Control Systems
- Electrical Materials
- Computer Fundamentals
- Power Systems
- Electrical and Electronic Measurements
- Power Electronics and Drives
- Basic Electronics Engineering
- Analog and Digital Electronics
- Systems and Signal Processing
- Electrical Machines
- Operations Research.
- Joining Processes.
- Turbomachinery.
- Forming Processes.
- Metal Casting.
- Thermodynamics and Statistical Mechanics.

Chemical Engineering

- Atoms and Molecules.
- Reaction Dynamics
- Organic Reactions.
- Photochemistry.
- Transition Metal Chemistry.
- Electrochemistry.
- Stereochemistry.
- Spectroscopic Techniques.

Instrumentation Engineering

- Digital Electronic Circuits
- Electrical Measurements
- Electronics Instruments
- Signals & Systems
- Control Systems
- Analog Electronics
- Electronics Circuits
- Fundamentals
- Microprocessors and Micro Computers
- Analytical, Optical & Bio-Medical Instrumentation
- Instrumentation

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