

Indian Oil Corporation Limited



IOCL Apprentice Exam Pattern

IOCL Trade Apprentice Accountant, Data Entry Operator (Fresher & Skill Certificate Holder) Pattern

Name of the subject	Number of Marks
Generic Aptitude including Quantitative Aptitude	30 Marks
Reasoning Abilities	30 Marks
Basic English Language Skills	40 Marks

Trade Apprentice (Fitter/ Electrician/ Electronics Mechanic/ Instrument Mechanic/ Machinist) & Technician Apprentice (Mechanical/ Electrical/ Instrumentation/ Civil/ Electrical & Electronics/ Electronics):

Name of the subject	Number of Marks
Generic Aptitude including Quantitative Aptitude	20 Marks
Reasoning Abilities	20 Marks
Basic English Language Skills	20 Marks
Technical Acumen in relevant discipline	40 Marks

IOCL Apprentice Syllabus

Electronics & Instrumentation

- Analog Electronics.

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

Electronics & Communication

- Electronic Devices.
- Signals and Systems.
- Control Systems.
- Analog & Digital Communications.
- Electromagnetics.
- Analog Circuits.
- Engineering in Mathematics.
- Networks.
- Digital circuits.

Electrical

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

Chemical Engineering

- Electrochemistry.
- Stereochemistry.

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

General Aptitude

- Height and Distance.
- Data Interpretation.
- Clocks & Calendars.
- Permutation and Combination.
- Pipes and Cistern.
- Square Root and Cube Root.
- Boats and Streams.
- Time and Distance.
- Ratio and Proportion.
- Partnership.
- Problems on H.C.F and L.C.M.
- Chain Rule.
- Average.
- Logarithm.
- Simple Interest.
- Allegation or Mixture.
- Time and Work.
- Compound Interest.
- Blood Relations.
- Decimal Fraction.
- Simplification.
- Probability.
- Problems on Ages.
- Surds and Indices.
- Volume and Surface Area.
- Area.

Reasoning

- Similarities and Differences.

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- Problem Solving.
- Space Visualization.
- Judgment.
- Analysis.
- Discriminating Observation.
- Figure Classification.
- Visual Memory.
- Decision Making.
- Relationship Concepts.
- Arithmetical Number Series

General English

- Unseen Passages.
- Meanings.
- Antonyms.
- Grammar.
- Sentence Rearrangement.
- Sentence Corrections.
- Articles.
- Phrase Replacement.
- Error Spotting/Phrase Replacement.
- Para Jumbles.
- Reading Comprehension.
- Word Formations.
- Cloze Test.
- Subject-Verb Agreement.
- Idioms & Phrases.
- Fill in the Blanks.
- Adverb.
- Adjectives.
- Missing Verbs.
- Synonyms
- Verb