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## IOCL Trade Apprentice Technician Apprentice Exam Pattern & Syllabus

Dear Candidates, We are providing the Latest Syllabus & Exam Pattern for the IOCL Trade Apprentice ,Technician Apprentice 2017 which helps you to prepare for your Prelim Exam.

The details descriptions of the Exam Pattern & Syllabus are as follows- :

### Exam Pattern

S. No	Type of Exam	Subject Name	Duration
1.	Objective Type	Related Discipline	2 Hours
2.		General Awareness/ Reasoning	
3.		Logical Ability	

- IOCL Trade Apprentice written test consists of objective type test.
- In IOCL exam, the questions appear from General Awareness, Logical Ability, and related subjects.
- Each correct answer in IOCL test carries one mark.
- And the duration of IOCL Trade/ Technician Apprentice test is 2 hours.

# **Syllabus**

## **IOCL Technician Apprentice Syllabus for Reasoning Ability**

- Similarities and Differences.
- Problem Solving.
- Space Visualization.
- Judgement.
- Analysis.
- Visual Memory.
- Decision Making.
- Relationship Concepts.
- Discriminating Observation.
- Figure Classification.
- Arithmetical Number Series etc.

## **IOCL Technician Apprenticeship Training Syllabus for Numerical Ability**

- Percentages.
- Averages.
- Simplification.
- Problems on Ages.
- Profit and Loss.
- Interest.
- Time & Work.
- Time & Distance.
- Boats & Streams.
- Pipes & Cisterns.
- Data Interpretation etc.

## **IOCL Trade Apprentice Syllabus for General Awareness**

- Sports.
- Culture.
- History.
- Economic Scene.
- Geography.
- Indian Constitution.
- General Polity.
- Scientific Research.
- Current Events – International & National etc.

### **IOCL Technician Apprentice Syllabus – Mechanical Engineering**

- The Strength of Materials.
- Heat Transfer,
- Machine Design.
- Theory Of Machines.
- Refrigeration & Air Conditioning.
- Fluid Mechanics.
- Fluid Machinery & Steam Generators.
- Thermodynamics.
- Engineering Materials.
- Industrial Engineering etc.

### **IOCL Technical Apprentice Syllabus – Electrical Engineering**

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

### **IOCL Apprentice Syllabus – Instrumentation Engineering**

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

### **IOCL Trade Apprentice Syllabus – Physics**

- Laws of motion.
- Thermal properties of matter.
- Units and measurements.
- Kinetic theory.
- Gravitation.
- Work, energy, and power.
- Wave optics.
- Oscillations.
- Physical world.
- Mechanical properties of solids.
- Ray optics and optical instruments.
- Motion in a straight line.
- Thermodynamics.
- Motion in a plane.
- Nuclei.
- Mechanical properties of fluids.
- Systems of particles and rotational motion.
- Electric charges and fields.
- Moving charges and magnetism.
- Electromagnetic induction.
- Electrostatic potential and capacitance.
- Magnetism and Matter.
- Current electricity.
- Alternating current.
- Dual nature of radiation and matter.
- Electromagnetic waves.
- Atoms.

- Waves.
- Semiconductor electronics.
- Communication systems.

### **IOCL Trade Apprentice Syllabus – Chemistry**

- The s – block elements.
- P-block elements – group 14 (carbon family).
- Organic chemistry-some basic principles and techniques and hydrocarbons.
- Solutions.
- Surface chemistry.
- Thermodynamics.
- Chemical equilibrium and acids-bases.
- Hydrogen and its Compounds.
- Atomic structure.
- D and f block elements & coordination compounds.
- Classification of elements and periodicity in properties.
- Environmental chemistry.
- Chemical bonding and molecular structure.
- Solid state.
- States of matter: gasses and liquids.
- Electrochemistry and chemical kinetics.
- Stoichiometry.
- General principles of metallurgy.
- Organic compounds containing c, h and o.
- P- block elements group 13 (boron family).
- P-block elements.
- Biomolecules.
- Chemistry in everyday life.
- Haloalkanes and haloarenes.
- Polymers.
- Organic compounds containing nitrogen.

### **IOCL Trade Apprentice Syllabus – Mathematics**

- Number Systems.
- Computation of Whole Numbers.
- Decimals and Fractions.
- Relationship Between Numbers.
- Fundamental Arithmetical Operations.
- Percentage.

- Ratio & Proportion.
- Profit & Loss.
- Simple Interest.
- Average.
- Discount.
- Partnership.
- Time & Work.
- Time & Distance.
- Use of Tables and Graphs.
- Mensuration.

### IOCL Syllabus – Chemical Syllabus

- Chemical Arithmetic & Atomic Structure.
- Solutions.
- Chemical Equilibrium.
- Chemical Kinetics.
- Redox Reactions and Electrochemistry.
- Chemical Thermodynamics.
- Solid State & States of Matter.
- Chemical Bonding and Molecular Structure.
- Chemistry of Representative Elements.
- Surface Chemistry.
- Classification of Elements and Periodicity in Properties.
- Transition Elements Including Lanthanides.
- Nomenclature and Basic Concepts in the Organic Chemistry.
- Organic Chemistry Based On Function Group-II.
- Organic Chemistry Based On Functional Group-III.
- Hydrocarbons.
- Organic Chemistry Based On Functional Group-I.
- Co-Ordination Chemistry and Organometallics.
- Molecules of Life.
- Polymers

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