

# **Rashtriya Chemicals and Fertilizers Limited**

## **RCFL Operator Trainee Syllabus - Quantitative Aptitude**

- Permutations and Combinations
- Problems on L.C.M and H.C.F
- Pipes and Cisterns
- Percentages
- Simple Equations
- Problems on Numbers
- Averages
- Odd Man Out
- Quadratic Equations
- Probability
- Profit and Loss
- Simplification and Approximation
- Indices and Surds
- Compound Interest
- Volumes
- Time and Work Partnership
- Ratio and Proportion
- Boats and Streams
- Simple Interest
- Time and Distance
- Problems on Trains

# **Rashtriya Chemicals and Fertilizers Limited**

- Areas
- Races and Games
- Numbers and Ages
- Mixtures and Allegations
- Mensuration

## **Reasoning - Rashtriya Chemicals and Fertilizers Limited Syllabus**

- Analogy
- Series Completion
- Assertion and Reasoning
- Arithmetical Reasoning
- Operations of Mathematics
- Venn Diagrams
- Word Sequence
- Missing Characters
- Sequential Output training
- Directions
- Test on Alphabets
- Verification of truth of the Statement
- Situation Reaction Test
- Direction Sense Test
- Classification
- Data Sufficiency

# **Rashtriya Chemicals and Fertilizers Limited**

- Alpha- Numeric Sequence Puzzle
- Dot Situation
- Identical figure groupings
- Forming figures and analysis
- Construction of squares and Triangles
- Series
- Analytical Reasoning
- Paper Folding
- Paper Cutting
- Cubes and Dice
- Water Images
- Mirror Images
- Figure Matrix
- Completion Incomplete Pattern
- Spotting embedded figures
- Classification
- Rules Detection
- Puzzle Test
- Blood Relations
- Coding- Decoding

## **General Awareness Syllabus Topics**

- National Dance

# **Rashtriya Chemicals and Fertilizers Limited**

- Music & Literature
- Indian Culture
- Scientific observations
- Political Science
- Science and innovations
- New inventions
- Economic problems in India
- Geography of India
- National and International current affairs
- World organizations
- Countries and Capitals
- Famous Places in India
- Books and Authors
- Important Dates
- About India and it's neighboring countries

## **Operator Trainee Syllabus - General English**

- Passage Completion
- Idioms and Phrases
- Sentence
- Completion
- Error Correction (Underlined Part)
- Transformation

# **Rashtriya Chemicals and Fertilizers Limited**

- Prepositions
- Antonyms
- Active and Passive Voice
- Substitution
- Sentence Improvement
- Synonyms
- Spelling Test
- Substitution
- Sentence Arrangement
- Fill in the blanks
- Spotting Errors
- Para Completion
- Joining Sentences
- Error Correction (Phrase in Bold)

## **Rashtriya Chemicals and Fertilizers Limited - Technical Subjects Topics**

### **Civil**

- Building Planning
- Valuation
- Hydraulic Structure
- Professional practice
- Transportation Engineer 1 & 2 (Road)
- Quantity Estimation

# **Rashtriya Chemicals and Fertilizers Limited**

- Building Code
- Town Planning
- GIS
- Structural Analysis
- Soil Mechanics

## **Mechanical**

- Heat Transfer
- Fluid Mechanics
- Theory of Machines
- Operations Research
- Machine Design
- Engineering Mechanics
- Energy conservation
- Engineering Materials
- The Strength of Materials
- Management Information System
- Machining and Machine Tool Operations
- Thermodynamics
- Meteorology and Inspection
- Product design and Development
- Fluid Machines
- Industry Safety

# **Rashtriya Chemicals and Fertilizers Limited**

- Inventory Control
- Machining and Machine Tool Operations
- Metal Casting
- Production Planning and Control
- Computer Integrated Manufacturing Design
- Inventory Control

## **Electrical**

- Electric Circuits
- Electrical Machines
- Power Systems
- Utilization & Control Systems
- Analog and Digital Electronics
- Power Electronics and Drives
- Synchronous Machines
- Estimation and Costing
- Basic concepts
- Generation
- Circuit law
- Measurement and Measuring Instruments
- Electrical Machines
- Magnetic Circuit
- AC Fundamentals

# **Rashtriya Chemicals and Fertilizers Limited**

- Fractional Kilowatt Motors
- Single phase induction Motors
- Transmission and Distribution
- Utilization and Electrical Energy

## **Electronics**

- Basics of Circuits and Measurement Systems
- Electrical and Electronic Measurements
- Analytical
- Control Systems
- Optical Instrumentation
- Process Control
- Signals & Systems, and Communications