

# SJVN Field Engineer Syllabus 2023

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### Selection Process

- The selection process for these posts consists of Personal Interviews which will be held at Corporate Head Quarter, Shimla.

### SJVN Syllabus Field Engineer for Electrical Engineering

- Electronics
- General Engineering
- Entrepreneurial Awareness
- Digital Electronics
- PC Maintenance and Repair
- Basics of Management
- Energy Management
- Applied Mathematics
- Applied Physics
- Applied Chemistry
- Applied Mechanics
- Fundamentals of Electrical Engineering
- Power Generation and System Protection
- Utilization of Electrical Energy
- Electrical Machines
- Transmissions and Distribution of Electrical Power
- Industrial Electronics and Control of Drives

- Electrical Measurements and Instruments
- Electrical and Electronics Engineering Materials
- Estimating and Costing in Electrical Engineering
- Computer Programming and Applications (For electrical Engineering)
- Electrical Engineering Design and Drawing

### **SJVN Syllabus Field Engineer for Civil Engineering**

- Surveying
- Construction Material
- Building Construction
- Concrete Technology
- Transportation Engineering
- Irrigation Engineering
- Hydraulics and Fluid Mechanics
- Engineering Drawings
- Steel Structure Design
- Estimating, Costing, and Valuation
- Water Supply and Waste Water Engineering
- Soil and Foundation Engineering
- Theory of Structures and Structural Mechanic
- RCC Design and Earthquake resistant Building Construction

### **SJVN Syllabus Field Engineer for Mechanical Engineering**

- CAD
- Applied Mechanics
- Electrical Technology
- Thermodynamics
- Strength of Materials
- Material Science
- Theory of Machines
- Entrepreneurial Awareness
- Automobile Engineering
- Machine Design
- Applied Mathematics
- Applied Physics
- Applied Chemistry
- Engineering Drawing
- General Workshop Practices
- Basic Information Technology
- Basics of Management
- Refrigeration and Air Conditioning
- Metrology and Instrumentation
- Production Planning and Control
- Generic Skills and Entrepreneurship Development
- CNC Machines and Automation
- Manufacturing Processes

- Mechanical Engineering Drawing
- Hydraulics and Pneumatics
- Ecology and Environmental Awareness

### **SJVN Field Engineer Exam Pattern**

- Total Part in Question Paper: 2
- Total Question: 150
- Part-I: 120 Question
- Part II: 30 Question
- Question Type: MCQ

<b>Sub</b>	<b>Que/ Marks</b>
Part I Relevant Discipline	120/120
Part II Executive Aptitude	30/30
<b>Total</b>	150/150
<b>Weightage</b>	
Computer-Based Test(CBT)	75%
Group Discussion(GD)	10%
Personal Interview(PI)	15%

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