

# HVAC

## Heating, Ventilation and Air-Conditioning

HVAC system mainly deals with providing thermal comfort and maintains acceptable indoor air quality through conditioning and ventilation process.

## HVAC

(Duration: 120hrs)

1. Introduction to CADD Software
2. Introduction to HVAC
3. Fundamentals of HVAC System
4. Types of Air Conditioning System
5. Types of Compressor, Coils, Pumps & Fans
6. Abbreviations & Symbols
7. Air Conditioning Ducting Design
8. HVAC Ducting System Material
9. Types of Insulation
10. Air Distribution Selection
11. Accessories in Ducting System
12. Ventilation Ducting Design
13. Chilled Water Piping Design
14. Valve Connection Details
15. Preparation of BOQ
16. Heat / Cooling load calculation
17. Shop Drawing Preparation
18. Project Work Exercise
19. Interview Tips
20. HVAC Questionnaire



### We also offer:

- ❖ Design & Detail shop drawing services
- ❖ Execution of Projects related to building construction
- ❖ Staffing Services for related Engineering works

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## READS ENGINEERING LLP

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## MEP – DESIGNING & DRAFTING COURSES

(FOR BUILDING CONSTRUCTION WORKS).



## FIRE FIGHTING

**Fire Fighting** is the act of extinguishing Fire. Fire fighting system Suppresses and Extinguishes fire to protect lives and to prevent the destruction of property and of the environment.

### FIRE FIGHTING SYSTEM

(Duration: 90hrs)

1. Introduction to CADD Software
2. Introduction to Fire Fighting System
3. Classification of firefighting system
4. Fire Extinguisher
5. Sprinkler Systems
6. Fire Pipe & Hangers
7. Piping Standards & Specification
8. Sprinkler Heads
9. Fire Hose Cabinet
10. Fire Pump
11. Zone control valve
12. Fire Department connection
13. Fire Schematic & Section Details
14. Fire Fighting codes & standards
15. Fire fighting calculation
16. Project Management
17. Preparation of BOQ
18. Shop drawing Preparation
19. Project Work Exercise
20. Interview Tips

## ELECTRICAL

**Electrical** Engineering for building services constitutes Designing, Construction, and Practical usage of electrical systems for day to day activities.

Electrical system deals with analysis and application of Power transmission and Distribution, Lighting systems, ELV & Building Management System.

### ELECTRICAL

(Duration: 120hrs)

1. Introduction to CADD Software
2. Introduction to Electrical
3. Lighting System
4. Power System
5. Raceway / Containment
6. Wires and Cables Management
7. Electrical Routing & Fitting
8. Extra Low Voltage System
9. Fire Alarm
10. Earthing and Lightning Protection
11. Lux Level Calculation
12. Load Schedule Preparation & Balancing
13. LV & ELV Schematic Preparation
14. Building Management System
15. Abbreviations & Symbols
16. Regulation & Standards
17. Project Management
18. Shop Drawing Preparation
19. Project Work Exercise
20. Interview Tips

## PLUMBING

**Plumbing** Engineering for building services constitutes any system that conveys fluids for a wide range of service areas.

Plumbing System mainly deals with Waste Removal, and Potable water delivery. In the developed world plumbing infrastructure is critical for **public health** and **sanitation**.

### DRAINAGE & WATER SUPPLY

(Duration: 90hrs)

1. Introduction to CADD Software
2. Introduction to Plumbing
3. Plumbing Fixtures
4. Drainage Design Criteria
5. Drainage Piping & Venting System
6. Drainage Piping Standards & Specification
7. Internal & External Drainage System
8. Water Supply Design Criteria
9. Water Supply Piping Standards & Specification
10. Internal & External Water Supply Service
11. Definition of Pump and Tank
12. Schematic & Section Detail Preparation
13. Plumbing Builders Work
14. Project Management
15. Preparation of As Built Drawing
16. Plumbing Abbreviation & Symbols
17. Preparation of BOQ
18. Shop drawing Preparation
19. Project Work Exercise
20. Interview Tips