



An ISO 9001 - 2008
Organization



INTERNATIONAL STANDARD
ISO/IEC-17025:2005 NABL ACCREDITED FOR NDT
(Dept. of Science and Technology, Government of India)



Accreditation Certificate No: T - 2387

HVAC & MEP TRAINING INSTITUTE



MEP TRAINING AND CERTIFICATION

SYLLABUS

HVAC

1. INDUSTRIAL SAFETY

INTRODUCTION , SCOPE & USE OF AIR CONDITIONING
CLASSIFICATION OF AIR CONDITIONING
VENTILATION
PSYCHROMETRIC CHART & PROCESS
SURVEY OF BUILDING
LOAD CALCULATION - COOLING & HEAT

2. DUCT DESIGN

SELECTION OF INDOOR / OUTDOOR UNITS
AIR TERMINAL SYSTEM
AIR DISTRIBUTION SYSTEM
DUCT DESIGN CALCULATION
USING Mc - QUAY + AUTOCAD

3. PIPE DESIGN

CHILLED WATER SCHEMATIC SYSTEM
CHILLERS & VALVES
CHILLED WATER PUMPS

5. PROJECT

ESTIMATION OF REQUIRED MATERIALS
BILL OF QUANTITY
DUCT QUANTITY
SPECIFICATION OF HVAC
COOLING TOWER & ACCESSORIES IN HVAC
SUPPORT & ACCESSORIES IN HVAC
STATIC CALCULATION
TESTING & COMMISSIONING

6. SOFTWARE

AUTO CADD - 2D (DUCT & PIPE DESIGNING)
PROJECT
REVIT MEP - 3D (DUCT & PIPE DESIGNING)
(EXTRA COST)

ELECTRICAL

1. INDUSTRIAL SAFETY

SAFETY, HAZARDS AND ACCIDENTS
PTW
EMERGENCY PROPERNESS PLAN
PPE

2. FIRE

FIRE DETECTORS AND ALARM
SOUNDERS AND MANUAL CALL POINTS
EVACUATIONS SYSTEM
FIRE ALARM LAYOUT

3. ELECTRICAL DRESSING TECHNIQUES

CABLE GLANDING AND TERMINATION
CABLE TRAY AND TRUNKING
ELECTRICAL CONDUITS

4. WIRING

ELECTRICAL WIRE SYSTEM
TYPES OF WIRING SYSTEM
TYPES OF WIRES

5. FUNDAMENTAL OF ELECTRICITY

INTRODUCTION AND LAWS
TYPES OF ELECTRICAL CONNECTIONS
BASICS OF GENERATOR
BASICS OF MOTOR
BASICS OF TRANSFORMER
BASICS OF BATTERY
MAINTENANCE OF BATTERY

6. EARTHING AND LIGHTING

TYPES OF EARTHING SYSTEM
LIGHTING PROTECTION

7. SWITCH GEARS

MCB,RCB,ELCB,SF6,RCCB,ACB,VCB
TYPES OF PANEL BOARD

8. BUS BARS

TYPES OF BUS BARS
BUS BARS MOUNTINGS
PROTECTION
BUS BARS LAYOUT
SLD
ELECTRICAL SYMBOLS
ELECTRICAL LAYOUT FOR BUILDING

9. LIGHTING AND LIGHTING SYSTEMS

INTRODUCTION
TERMINOLOGY
TYPES OF LAMPS
LIGHTING CONTROL
LIGHTING STANDARDS
TYPES OF LIGHTS AND LAYOUT
EMERGENCY LIGHTING DESIGN

10. STANDARD & CODES:

DESIGNING AS PER ELECTRICAL STANDARDS
DEWA, ADEWA, ADDC,
KHARAMA, ETC

11. CCTV

CCTV INTRODUCTION
COMPONENTS
INSTALLATION PROCEDURE
FA,PAVA, EMERGENCY LIGHTING AND
COMMUNICATION LAYOUT
ELV SYSTEMS