

FUNDAMENTALS OF HVAC

(HEATING, VENTILATION & AIR-CONDITIONING)



WHO should attend?

- Engineers, technicians, electricians, supervisors, and other personnel who work on or near energized and de-energized electrical equipment and systems.
- Electrical maintenance engineers in industries.
- Operation engineers in Industry
- Process control engineers
- Electrical Technicians and staffs

FOR MORE DETAILS, PLEASE CONTACT:

MARKETING SALES DEPT

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WORKSHOP overview

This practical course will develop your knowledge of basic principles and provide you with a thorough understanding of heating, ventilation and air-conditioning systems.

You will

- ✓ Consider various HVAC systems and equipment technologies
- ✓ Discuss equipment / system operation
- ✓ Examine advantages and disadvantage
- ✓ Learn what characteristics lead to effective HVAC systems

Your participation in this course will help understand HVAC system requirements, which can be quite diverse. Although most HVAC systems function primarily to provide a comfortable indoor environment for occupants, the requirements of HVAC systems are often extended to include indoor air quality as well.

WORKSHOP objectives

The primary objective of this course is to provide you with an understanding of the fundamentals of heating, ventilation and air-conditioning. Upon completing this course you will understand

- Why HVAC systems play a major role in achieving a quality indoor environment
- Basic air-conditioning
- HVAC system impacts on comfort, productivity and indoor air quality
- Heat loss and cooling load calculations
- HVAC equipment and how it operates

WORKSHOP outline

- Psychometrics
- Psychometrics Workshop
- Fundamentals of Heating Load Calculations
- Fundamentals of Cooling load Calculation
- Introduction to HVAC Controls
- HVAC Systems Workshop
- Overview of Air Conditioning Systems
- Air Delivery Systems
- Air Conditioning System
- Achieving Successful HVAC Systems
- Alternative Technologies (Gas Cooling)