

Energy Efficiency in Air conditioning Systems

Duration : All short courses between 3-5 days

Program Details

This course will cover one of the key systems which must be understood if energy savings are to be achieved. It will cover information such as an introduction to air conditioners and how they work and how to make energy savings from air conditioners and cooling systems.

Overview of cooling: Basics of Refrigeration and air conditioning systems and Thermodynamic Cycles. COP.

Steps to energy efficient cooling: Performance analysis, fault diagnosis, maintenance of refrigeration and air-conditioning system

Reducing cooling demand: Cooling load estimation and reduction analysis

Air-condition Systems: Typical domestic and non-domestic cooling systems , Air conditioners and heating systems

HVAC Controls: Basics of electrical connections and Controllers for HVAC systems

Learning Outcomes

On completion of this module the trainee will be able to:

- Reduce demand for cooling
- Install efficient/renewable sources
- Ensure good low temperature distribution
- Install and operate good AC controls
- Maintain and operate systems well
- Effect of thermal insulation in cooling demand and energy efficiency

Target Participants

Professionals working in related field / fresh recruits having diploma /degree in Civil/ Mechanical / Maintenance Engineering or in allied fields