

# A PRACTICAL COURSE IN AIR-CONDITIONING SYSTEM DESIGN

## OVERVIEW

The determination of the right size of cooling capacity for an air conditioning system is often estimated with “rule of thumb” figures. This method of calculation will often result in inaccuracy or oversizing of the cooling system. In this two-day training, participants will be taught on the fundamental principles of cooling load calculations and hands-on practice of how to calculate more accurately for the right capacity to be installed. Complete design database will be given which can be used for all future design of the air conditioning systems.

## TARGET MARKET

- Facilities engineer
- Maintenance engineer/executive/supervisor
- Charge man
- Technician
- Air-cond distributors
- M&E engineer

## COURSE OUTLINE

- Introduction
- Cooling load calculation
- A practical heat load estimation method
- A hands-on exercise of cooling capacity calculation
- A short-cut method of cooling capacity calculation
- Fundamentals of refrigeration
- Different types of air-conditioning systems

## OBJECTIVES

At the end of the course, the participants should be able to:

- Understand how the room is being maintained at constant room temperatures
- Understand the various source of heats to the buildings
- Perform a cooling load calculation to determine the air conditioning capacity
- Perform short-cut calculation to determine air-conditioning system capacity
- Understand the various types of air conditioning systems available and make good choice from them

**SBL CLAIMABLE**



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