

# AIR-CONDITIONING FOR NON AIR-CONDITIONING ENGINEERS

## OVERVIEW

The purpose of this course is to familiarize workshop participants with knowledge on the working principle of air-conditioning systems, understand the functions of major components in air-conditioning, and understand the different types of air-conditioning and how to do trouble shooting. The workshop approach is a combination of formal presentation, interactive discussion, group discussion, and case studies.

## TARGET MARKET

- Junior air-conditioning engineers, non-air-conditioning engineers e.g. electrical engineers, F&M engineers, mechanical engineers, civil engineers
- Plant engineers, refrigeration and air-conditioning contractors engineers
- Technical personnel
- Architects, engineers and others responsible for the maintenance of the air-institutional building

## COURSE OUTLINE

- Overview of air-conditioning
- Air-conditioning components
- Types of air-conditioners
- Load estimation
- Psychometric chart
- Equipment selection
- Ductwork
- Air outlet
- Chilled water pipe sizing

## OBJECTIVES

- Receive a thorough grounding in basic knowledge regarding air-conditioning and refrigeration
- Gain solid understanding of the issues associated with the proper sizing, selection, installation or air-conditioning system
- Understand the characteristic of various types of HVAC systems
- Learn the ways to determine design cooling and heating loads
- Learn to evaluate potential energy saving techniques and equipment
- Know how to determine the possible air-conditioning system approaches that best serve your application

**SBL CLAIMABLE**



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