

Professional Certificate Course in Testing and Commissioning

Module 1: Testing and Commissioning of HVAC Systems

Course Information

Aims

This module is aimed for in-service practitioners who are handling T&C process on site. On completion of this module, trainees will be able to acquire a fundamental concept on T&C for better planning and executing the HVAC T&C process on site.

Objectives

- i) To enable trainees to understand the fundamental concept and documentation of T&C over different project phases;
- ii) To provide background knowledge on T&C of HVAC systems and equipment; and
- iii) To enable trainees to acquire field techniques in testing, adjusting and balancing of the HVACR systems.

Key Speakers

Ir Daniel Chong, Contracts Manager, ClydeMan Engineering Ltd.

Ir Samuel Fung, Director, Karson Engineers Co. Ltd.

Ir Spencer Lo, Director, Skyforce Engineering Ltd.

Ir Wong Chu Fai, Lecturer, Department of Engineering, IVE(Tsing Yi)

Topic Covered

1. Introduction to Testing and Commissioning (T&C)
 - T&C principles and applicability in different construction phases
 - Pre-Commissioning; Commissioning and Post-Commissioning tasks
2. Introduction to T&C for HVACR systems (Air-side)
 - Air flow regulation & measurement
 - Fans and AHUs
 - Other Equipment and fittings
3. Introduction to T&C for HVACR systems (Water-side)
 - Water flow regulation & measurement
 - Piping and devices
 - Chillers, cooling towers and pumps
4. Introduction to T&C for HVAC Controls
5. Practical and Field Measurement

Some photos taken in the course are shown as below:

