

ACES-IMI TA Seminar

Principal of Pressure Maintenance Keys points in Hydronic Design



Date: 30 August 2019 (Fri)

Duration: 12.30 pm to 6.00 pm

Venue: 18 Sin Ming Lane

#06-01 Midview City Singapore 573960

CPD: PDUs / STUs (M&E) – to be confirmed

ACES Member:	\$30 / pax		
RE/RTO (M&E):	\$60 / pax		
Non-Member:	\$90 / pax		



SYNOPSIS

PART 1: Principle of Pressure Maintenance & Water Quality

This seminar provides a comprehensive knowledge of principle of pressure maintenance. Upon completion of this seminar, each participant will understand the importance of correct pressure maintenance in ACMV installations and between pressure maintenance and corrosion issues.

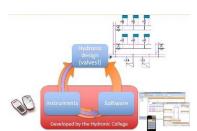
PART 2: Keypoints on Hydronic Design

Upon completion of this seminar, each participant will understand the Basic Hydronic System Design Principles to achieve indoor comfort with the least energy use.

OBJECTIVES

PART 1: Principle of Pressure Maintenance & Water Quality

- Identify the issues with open expansion tank
 - Air ingress from open expansion tank cause corrosion in ACMV installation, Corrosion cause higher friction loss in chillers, pipes, cooling coils, etc.
 - Corrosion and Air cushion in chilled water reduces heat exchange efficiency
- Implementing the correct solutions to stop air ingress
 - The importance of correct pressurization system
 - Calculation of closed expansion vessel



PART 2: Keypoints on Hydronic Design

- Uncomfortable indoor temperature causes energy wastage
 - Identify the importance and methods of chilled water balancing ensuring minimum energy consumption
 - Authority of control valve that is distorted causing unstable temperature control even with modulating control valve
 - How DP Controller valve improve valve authority and enhance better flow control
- Unstable flow control at part load causes uncomfortable indoor temperature and energy wastage
 - Identify the minimum control valve authority for stable flow control at part load
 - Identify the correct control valve plug design for modulating valve
 - Identify the correct location for DP Sensor for maximum energy savings at part load

With Part 1 and Part 2 taken into consideration as design guidelines, ACMV installation will have a longer life span and low energy consumption without sacrificing the indoor comfort.

SPEAKER PROFILE



Alan Tay is the Technical Director of IMI Hydronic Pte Ltd.

In his role, Alan is responsible for leading the South East Asia providing technical support to customers and IMI Hydronic/Distributors sales team on Hydronic system implementation in commercial buildings and industrial plants.

PROGRAMME OUTLINE

Time	Торіс
12.30 pm	Registration & Networking with lunch provided
1:30 pm	PART 1: Principal of Pressure Maintenance & Water Quality
2:30 pm	PART 2: Keypoints on Hdyronic Design
3.30 pm	Light refreshments
4.00 pm	PART 2: Keypoints on Hdyronic Design (Cont'd) and Q&A
6.00 pm	End of Seminar

REGISTRATION FORM

For enquiry, please call ACES Secretariat at Tel: 6659 5023
Kindly sign and submit your completed registration form to secretariat@aces.org.sg

Code	Title		Fee per pax		Schedule	Venue			
S30	ACES-IMI TA Seminar Principal of Pressure Maintenance Keys points in Hydronic Design		ACES Member: \$30 RE/RTO (M&E): \$60 Non-member: \$90		30 Aug 2019 (Fri) 12.30 pm to 6.00 pm	18 Sin Ming Lane #06-01 Midview City Singapore 573960			
S/N	Full Name		PE No.	ACES M'ship No.	M&E RE / RTO No.	last 3 digits + last alphabet of NRIC (e.g123x)			
1.									
2.									
3.									
Company:									
Address:									
Con	Contact Person: Mobile No.:			Email:					
'Association of Consulting Engineers Singapore" and mailed to "18 Sin Ming Lane #06-01 Midview City, Singapore 573960, Attention: ACES Secretariat". [Note: On the back of the cheque, please indicate participant name & event name]									
Terms and Conditions				To be completed by Company and Individual Applicant					
By submitting and signing this application form, the company and individual applicant agree to the following:			Name:						
a	 a) The company and individual applicant has read and understood the terms of the flyer (if available) and the application form. b) Payment for the course must be made (in form of cheque or cash) two weeks before the course commencement date. 			Signature:					
b) F									
r				Compa	any stamp (for company applica PLICANT	ntion)			
 d) Cancellation – In the event that participant is not able to attend, please inform us in writing at least 3 working days before the event date. 									
	Otherwise full payment is still applicable even if the participant did not turn up for the course.			Date:					