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JUNE
1

ACEM-BASAM SYSTEM INTEGRATOR TRAINING COURSE & EXAM #1/2024

PROGRAMME

DAY 1: Overview of BAS and Design Provisions

Enable System Integrators (SI) to understand BAS in totality. The sessions will provide an overview of BAS in the local construction industry from past to present over the last few decades, current issues and future challenges which will be followed by discussion on the relationship between M&E Systems and green building rating tools. In addition, potential design provisions especially for Design Consultants will be shared covering typical architectures of BAS, generation of I/O list and tender specification to engage Certified BAS System Integrators.

DAY 2: BAS in Building M & E Systems

Day 2 will focus on the relationship between BAS and Mechanical & Electrical systems. In depth details with illustrations will be shared. Interfacing concerns between BAS and other services will be highlighted. The ACMV core topics is expected to be very packed as it contributes the most to the BAS. Electrical protection and distribution network will be elaborated, together with lighting control. Typical examples of I/O list will be provided for each system.

Day 3: BAS Trending and Analytics

Day 3 will kick off with BAS control and monitoring in plumbing and irrigation followed by the next core topic of BAS Trending and Analytics. The most valuable tool of BAS – trending analysis and its acquired raw data. Various constraints will be highlighted and clarification to be sought from BAS Specialists, M&E Consultants & Owners for this rarely used but important implementation. Introduction to the imminent Monitoring Based Commissioning (MBCx) as a new tool in performance enhancement and diagnosis will be presented. Practical examples will be featured in an interactive manner. Day 3 will end with a MCQ exam for SI's desiring to be certified and will close with a briefing on the Project Assignment & grouping of candidates with submission and presentation to examiners approximately two (2) weeks later.

Day 4 (Half Day): Project Assignment & Group Presentation

REGISTRATION FEE

ACEM & BASAM Members:

RM 500.00 (Day 1 only)

RM 1,300.00 (Full course)

Others:

RM 600.00 (Day 1 only)

RM 1,600.00 (Full course)

VENUE

Ballroom V (Main Wing)
Tropicana Golf & Country Club
Jalan Kelab Tropicana
47410 Petaling Jaya
Selangor Darul Ehsan



(Certificate of Attendance will be issued, subject to full attendance)

(ACEM-BASAM Certificate of BAS SI Competency will be issued to participants who pass the exam.)

ORGANISED BY



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DAY 1

Time	Contents of Lecture
8.30 a.m. - 9.00 a.m.	Registration
9.00 a.m. - 9.15 a.m.	Opening remarks by ACEM/BASAM President
9.15 a.m. - 10.30 a.m.	Overview of BAS (Part 1)
10.30 a.m. - 10.45 a.m.	Tea Break
10.45 a.m. - 1.00 p.m.	Overview of BAS (Part 2)
1.00 p.m. - 2.00 p.m.	Lunch Break
2.00 p.m. - 3.30 p.m.	BAS Design Provisions (Part 1)
3:30 p.m. - 3.45 p.m.	Tea Break
3.45 p.m. - 5.15 p.m.	BAS Design Provisions (Part 2)
5.15 p.m. - 5.30 p.m.	Short Quiz and Q&A
5.30 p.m.	End of Day 1

DAY 2

Time	Contents of Lecture
8.30 a.m. - 9.00 a.m.	Registration
9.00 a.m. - 10.30 a.m.	BAS in ACMV – Airside (Part 1)
10.30 a.m. - 10.45 a.m.	Tea Break
10.45 a.m. - 11.15 a.m.	BAS in ACMV – Airside (Part 2)
11.15 a.m. - 1.00 p.m.	BAS in ACMV – Waterside (Part 1)
1.00 p.m. - 2.00 p.m.	Lunch Break
2.00 p.m. - 3.30 p.m.	BAS in ACMV – Waterside (Part 2)
3.30 p.m. - 3.45 p.m.	Tea Break
3.45 p.m. - 5.15 p.m.	BAS in Electrical Distribution
5.15 p.m. - 5:30 p.m.	Short Quiz and Q&A
5.30 p.m.	End of Day 2

DAY 3

Time	Contents of Lecture
8.30 a.m. - 9.00 a.m.	Registration
9.00 a.m. - 10.30 a.m.	BAS in Plumbing & Irrigation
10.30 a.m. - 10.45 a.m.	Tea Break
10.45 a.m. - 1.00 p.m.	BAS Trending & Analytics (Part 1)
1.00 p.m. - 2.00 p.m.	Lunch Break
2.00 p.m. - 3.30 p.m.	BAS Trending & Analytics (Part 2)
3.30 p.m. - 3.45 p.m.	Tea Break
3.45 p.m. - 5.00 p.m.	MCQ Briefing & Exam
5.00 p.m. - 5.30 p.m.	Briefing on Group Project Assignment
5.30 p.m.	End of Day 3

DAY 4

(Scheduled approximately two weeks after Day 3)

Time	Contents of Lecture
8.00 a.m. - 8.30 a.m.	Registration
8.30 a.m. - 1.00 p.m.	Presentation of Project Assignment
Tea and coffee with snacks served throughout 8.00 a.m. to 1.00 p.m.	
1.15 p.m.	End of Day 4

Note:

- Titles and sequence of papers are subject to change without prior notice.
- Participants are encouraged to bring along their laptop.

BEM APPROVED CPD

Day 1 only – 6 hours

Full course – 20 hours

TRAINERS



Ir. TL Chen
FASHRAE,
FIFireE, FIEM,
PE, CE

Ir. Chen Thiam Leong is a Past President of the Association of Consulting Engineers Malaysia (ACEM), the Institution of Fire Engineers Malaysia (IFEM) and the Malaysian Chapter of ASHRAE. He is also Honorary Life Advisor to the Malaysian Air-Conditioning & Refrigeration Association (MACRA) and Advisor to the Building Automation System Association of Malaysia (BASAM). Chen is a practising Consulting Engineer. His notable projects include the New Securities Commission HQ which was Malaysia's first winner of the ASEAN Energy Award (where he introduced the concept of totally ductless and uninsulated floor plenum for comfort air-conditioning exceeding 600 m² per zone) and the Energy Commission HQ, winner of the ASEAN Energy Award 2012, EMERSON CUP 2012 and ASHRAE Technology Award 2013.

Chen holds a 1st Class Hons Mechanical Engineering degree from the University of Leeds and has been involved in Energy Efficiency designs since the early 80s. He regularly lectures in the international circuit on the subjects of Sustainability and Energy Efficiency under the ASHRAE Distinguished Lecturer program and is Malaysia's first ASHRAE DL. Chen also specializes in Energy and Fire & Life Safety audits. He is involved in the development of numerous Malaysian Standards including MS1525 on EE and has authored/co-authored technical articles/papers which are regularly featured in technical publications.

Together with Ir. PS Soong, Chen mooted and jointly conducted the Commissioning Specialists course for practitioners in Malaysia. In his quest to further plug the lacuna to realize high performance buildings, Soong and Chen have subsequently teamed up to conduct the BAS Integrator course. In recognition of his contribution to the engineering fraternity, Chen was honoured with the ACEM Gold Medal Award in 2010.



**Ir. Dr. Ling
Chin Poh**
PE, MIEM,
MPMI, GBIF,
GBICxS

Ir. Dr. Ling Chin Poh graduated from University of Western Australia in 1989 with a First Class Honours in Mechanical Engineering and Doctor of Philosophy in 1993. He has more than 25 years' experience in the design, construction, testing and operation of Mechanical system in building services. Ling is highly regarded for his experience in design, management and construction of prestigious projects in Sarawak ranging from offices, condominiums, hotel resorts, airports, hospitals and universities.

He is a qualified GBI Facilitator (GBIF) and GBI certified competent Commissioning Specialist (CxS). He is currently involved with green building projects in Sarawak & Sabah. His contribution in successful evaluation of building performance making full use of BAS trend logged data has helped the building industry move towards monitoring based commissioning. Ling is also a member of the Institution of Engineers Malaysia (IEM) and the Project Management Institute (PMI)



Ir. JY Ng
PEPC, MACEM,
MIEM, ACPE

Ir. JY Ng obtained his postgraduate diploma in Electrical & Electronic Engineering from City & Guilds, UK. He is a Professional Engineer with Practising Certificate registered with the Board of Engineers Malaysia (BEM), a member of ACEM and IEM, as well an ASEAN Chartered Professional Engineer.

Ir. Ng has over 20 years of consultancy experience in the building industry. Under his hands-on leadership, he has successfully completed various projects in mixed developments, commercial & residential buildings, hotels & resorts and institutional developments.

His extensive experience includes a stint as a full-time M&E Resident Engineer of a 40-storey office tower in Kuala Lumpur. With a well-rounded grinding in both office and site involvement, he is able to navigate and understand the full gamut of a project development from start to finish.



**Ir. Chin Kok
Hoe**
B.Eng MECH,
iCxS, GBIF

Ir. Chin Kok Hoe is Manager of Cofreth's Energy Services Department and has more than 12 years of working experience. He holds a Bachelor of Engineering (Hons.) Degree in Mechanical Engineering from the University of Malaya (UM).

He is a Competent GBI Commissioning Specialist (CxS), GBI Facilitator (GBIF) and Registered Electrical Energy Manager (REEM) under Suruhanjaya Tenaga (Energy Commission of Malaysia) and a Certified Energy Auditor. Ir. Chin is also a corporate member of ASHRAE.

In 2021, Ir. Chin was appointed as one of the consultants for Low Carbon Energy Programme (LCEP) in Malaysia. The project was awarded to Cofreth by Carbon Trust of London and is funded by UK Foreign and Commonwealth Development Office (FCDO).

REGISTRATION FORM

ACEM-BASAM SYSTEM INTEGRATOR TRAINING COURSE & EXAM #1/2024

14th – 16th May 2024 (8.30 a.m. – 5.30 p.m.)

1st June 2024 (8.00 a.m. – 1.00 p.m.)

BALLROOM V, TROPICANA GOLF & COUNTRY CLUB
PETALING JAYA, SELANGOR

REGISTRATION FEE	<i>RM 500.00 (Day 1 only) / 1,300.00 (Full course) – ACEM & BASAM Members</i>			
	<i>RM 600.00 (Day 1 only) / 1,600.00 (Full course) – Others</i>			
Participant Name	Organization	Contact No. / Email	Membership No.	Fee (RM)
Grand Total:				

For enquiries: Ms. Irin Kang, Mobile – 017-283 0913, E-mail – basam.enquiry@gmail.com

Mr. Jeffrey Lim, Mobile – 012-330 2246, E-mail – jeffreylsb@hotmail.com

Address : 19A, Jalan SS 21/1A, Damansara Utama, 47400 Petaling Jaya, Selangor Darul Ehsan

We are pleased to enclose herewith our _____ cheque/amount RM _____ issued in favour of "Malaysia Building Automation System Association" and crossed "A/C Payee Only" or make Telegraphic Transfer to Malaysia Building Automation System Association account at RHB Bank Berhad, Account No. 2-12349-0005189-3.

I/We understand that the fee is not refundable if I/we withdraw after my/our registration is accepted but substitution will be allowed. If I/we fail to attend the seminar, the fee paid will not be refunded.

Name of Company : _____ Mobile : _____

Contact Person : _____ E-mail : _____

Telephone : _____ Signature /
Company Stamp : _____

Closing date of registration: 7th May 2024 or when fully subscribed, whichever is earlier.