

2-Days Physical Course on “Optimizing Compressed Air System Energy Efficiency”



SPEAKERS :
Ir. Luk Chau Beng
Ts. Kelvin Low

ORGANIZED BY
MECHANICAL ENGINEERING TECHNICAL DIVISION (METD)

Date : 26 – 27 October 2022 (Wednesday - Thursday)
Venue : C&S and TUS Lecture Room, 2nd Floor, Wisma IEM, Petaling Jaya
Time : 9.00 a.m. – 5.30 p.m.

BEM Approved CPD/PDP Hours: 14.0 CPD
CPD REF. No.: IEM22/HQ/368/C

CLOSING DATE:
21 October 2022

*OR if the Course Reach its Target Registered Participants
NO ONLINE Registration
will be allowed after the Closing Date*

LIMITED SEATS

**‘FIRST-COME-FIRST-
REGISTRATION BASIS’**

Cancellation Policy

No cancellation will be accepted prior to the date of the event. However, replacement or substitute may be made at any time with 7 days prior notification and substitute will be charged according to membership status.

Personal Data Protection Act

I have read and understood the IEM's Personal Data Protection Notice published on IEM's website at <http://www.myiem.org.my> and I agree to IEM's use and processing of my personal data as set out in the said notice.

**“IEM reserves the right to alter or cancel the programme due to unforeseen circumstances at its discretion”.
For intending participants who choose to ‘walk in without prior registration’,
IEM SHALL NOT be responsible for any direct or consequential losses”.**

SPEAKERS



Ir. Luk Chau Beng is Professional Engineer and holds a Masters Degree in Engineering Management with specialization in Energy, a Bachelor degree in Mechanical Engineering, First Grade Steam and Internal Combustion Engine issued by DOSH as well as a Registered Electrical Energy Manager. He had more than 35 years of experience in operating, maintaining and turnaround of a power plant covering boilers, steam turbines, combustion turbines, compressed air system etc.

Apart from that, Ir. Luk was the past Chairman of the Mechanical Engineering Technical Division of IEM as well as a former Council Member of IEM. He holds several national chairmanships which include Chairman for ISO TC 11 on boiler and unfired pressure vessel, TC on mechanical engineering components with Standard Malaysia and also chaired two publications under KeTTHA, the Malaysian Energy Efficiency Guidelines for pumps, compressor, boilers, furnace and thermal oil heater for KeTTHA. He is a Certified Trainer by HRDF Malaysia, Certified Professional of Measurement & Verification (CPMV), and national expert in steam, pumps, fans, energy management optimization and solar thermal systems by (UNIDO)



Ts. Kelvin Low graduated in B.E (Hons) from University of Technology Malaysia in 2002 and M.Eng (Electrical Energy and Power System) from University of Malaya in 2012. He has more than 10 years experiences in M&E project management and 15 years extensive experiences in high and medium pressure compressed air system and low pressure blower system. He involved in compressed air system designing, installation, testing & commissioning, marketing and provide technical

solution for various industries segmentation including food and beverage, petrol chemical, oil & gas, cement plant, automobile, electronic/semiconductor as well as gas separation plant etc. He started his own industry facility management & aftermarket sales service company since year 2014. Currently, he is in consultancy & advisory business and is actively providing optimization solution, green/energy saving compressed air solution and system optimization training. His specialties including compressed air system audit and heat recovery system in air compressor. Besides that, he also holds the following competency certificate - Certified Trainer by HRDF Malaysia, Certified Professional of Measurement & Verification (CPMV), National Expert in Compressed Air System and Fan System Optimization by (UNIDO).

SYNOPSIS

The objectives of this course is to introduce and provide understanding of compressed air system; the various air compressors, air storage system, air treatment system, as well as the efficient design consideration of the compressed air system. This course will focus on the system optimization approach on the compressed air system taking into consideration the end use requirement, distribution system and compressed air station supply side management. The system optimization approach provides an overall energy saving besides ensuring the compressed air system performance and reliability. Efficient and reliable compressed air system reduces energy consumption and downtime besides ensuring smooth production and operation in the industrial plants.

In summary, this course will provide the participants with experiences in compressed air system design, selection of air compressor, optimizing compressed air system to improve efficiency and best practices in maintenance and operation to achieve high system reliability. At the end of the course, we hope plant engineers and facility users will be able to optimize the existing compressed air system and reduce the energy consumption hence the cost of energy.



TENTATIVE PROGRAMME

TIME	DAY 1	DAY 2
<i>08:30 - 09:00</i>	<i>Registration</i>	
09:00- 10:30	Introduction of Compressed Air System	Design and Sizing of Compressed Air System
<i>10:30 - 10:45</i>	<i>Tea Break</i>	
10:45 - 13:00	Energy Usage and Efficiency	Compressed Air System Audit and Optimization with Case Study
<i>13:00 - 14:00</i>	<i>Lunch</i>	
14:00 - 15:30	Compressed Air System Component	Demand Side Management with Case Study
<i>15:30 - 15:45</i>	<i>Tea Break</i>	
15:45 - 17:00	Compressed Air System Standards and Type of Air Compressor Control Method	Best Practices in Operation and Maintenance
17:00 - 17:30	Questions & Discussions	Questions & Discussions
<i>17:30</i>	<i>End of Day 1</i>	<i>End of Course</i>

**IEM reserves the right to postpone, reschedule, allocate or cancel the course*

REGISTRATION FORM

2-DAY COURSE ON
“OPTIMIZING COMPRESSED AIR SYSTEM ENERGY EFFICIENCY”
held on 26 – 27 October 2022 at Wisma IEM, PJ
organized by Mechanical Engineering Technical Division (METD)

	Online Fee (Log-in for registration & payment: www.myiem.org.my/member/login.aspx)	Normal Fee
IEM Student Member	RM 250.00	RM 280.00
IEM Graduate Member	RM 500.00	RM 600.00
IEM Corporate Member	RM 800.00	RM 900.00
Non-IEM Member	RM 1600.00	RM 1700.00

No	Name(s)	Membership No.	Grade	Fee (RM)
SUB TOTAL				
+ 6% SST				
TOTAL PAYABLE				

PAYMENT DETAILS :

FULL PAYMENT must be settled before commencement of the seminar, otherwise participants will not be allowed to enter the hall. If a place is reserved and the intended participant fails to attend the course, the fee is to be settled in full. If the participant failed to attend the course, the fee paid is non refundable. The Registration Fee includes lecture notes, refreshment and lunch.

For **ONLINE REGISTRATIONS**, please note that payment **MUST** be made **BEFORE** the closing date. If payment is not received within the stipulated time, the registration automatically cancels.

Contact Person : _____ Designation : _____

Name of Organization : _____

Address : _____

Telephone No. : _____ (O) Fax No : _____ (O)

Handphone : _____ (HP) Email : _____

Signature & Stamp _____ Date _____

TERMS & CONDITIONS:

- **ONLINE REGISTRATIONS ONLY through IEM Portal**
- ONLINE PAYMENT is applicable [via RHB and Maybank2u – Personal Saving & Personal Current ; Credit Card -Visa/Master.
- The Organising Committee reserves the right to cancel, alter, or change the program due to unforeseen circumstances. Every effort will be made to inform the registered participants of any changes. In view of the limited places available, intending participants are advised to send their registrations as early as possible so as to avoid disappointment.

For further details, kindly contact:

The Institution of Engineers, Malaysia
Bangunan Ingenieur, Lots 60/62, Jalan 52/4, P.O. Box 223 (Jalan Sultan), 46720 Petaling Jaya,
Selangor

Tel (DL): 603-7968 4019 Fax : 603-7957 7678 Email : roselein@iem.org.my