HOW TO FIND HIDDEN EFFICIENCY POTENTIALS IN YOUR EQUIPMENT ENERGY CONSUMPTION

Certified Trainer

Ir. Al-Khairi Mohd Daud
P.Eng, PEM, REEM, CPSI, MIEM, MMSQH, BEAM, MSOSH

Organized by :

Optimise — Optimal Systems Engineering Sdn Bhd — Engineering Sustainability

UTM PROSPECT — Process Systems Engineering Centre — engineering sustainability

UTM SDSN

Recognized by :

UTM — Universiti Teknologi Malaysia

HRDF CLAIMABLE

HRDF Claimable	Check with your HR Department for more info

Training	Date	CDP	Requirement
Method: Online training **Standard Price:** RM1000/pax	Refer to announcement (Speak with us for confirmed date on brochure)	6 (100% Attendance required)	stable internet microphone webcam

Training Summary

In this course, you will learn the technical energy audit on core mechanical equipment include motor, chiller, cooling tower, fans and blowers, pumps and air compressors. You will learn the systematic approach to account the energy efficiency of these equipments and understand the typical energy losses. More importantly, you will gain insight on how to improve the energy efficiency.

Learning Outcome

- Understand the typical energy losses of mechanical equipment in your facilities, including motors, chillers, cooling towers, fans and blowers, pumps and air compressors.
- How to account the energy efficiency of different mechanical equipment.
- Strategies and tips to improve the energy efficiency of mechanical equipment.

Learning Benefit

- Reduce your energy costs
- Improve the energy efficiency of the mechanical equipment in your facilities
- Gain professional recognition
- Prepare your organisation for setting up energy management system

Course Outline

- Motors
- Chillers
- Cooling Towers
- Fans and Blowers
- Pumps
- Air Compressors

Trainer Profile

Ir. Al-Khairi is a professional mechanical engineer with 30+ years experience spanning various sectors. From gas process plant, oleochemicals to high-end R&D and medical centre facilities.He acted as the Principal Engineer and Facilities Manager. He graduated from the University of Leeds with a BEng. (Hons) in Mechanical Engineering as well as holds an MBA from UNITAR. He is one of the AEMAS Certified Trainers for the Energy Manager Training Course (EMTC) as well as the trainer for competent and authorized person for medical gas system.

He is also one of the active surveyors of Malaysian Society for Quality in Health (MSQH), drafting the standard two and three of the MSQH 5th edition standards. He also has experience in research, manufacturing and private healthcare facilities. Ir Al-Khairi was involved in construction, project management, asset management, reliability studies, repair and maintenance of plants and facilities and consultancy.

Currently, Ir Al-Khairi is the Chief Consultant for Faqeh Management which specializing in asset, reliability, maintenance and energy management. Ir Al-Khairi is the advisor for Oil, Gas and Mining Technical Division for Institute of Engineers Malaysia (IEM) and a surveyor with Malaysian Society for Quality in Healthcare. He is also a member of Institute of Asset Management in UK. Ir Al-Khairi is not only a Registered Electrical Energy Manager with Energy Commission but he has been appointed as the country expert, trainer and auditor for ASEAN Energy Management Standard (AEMAS) under Green Technology Malaysia and preparing to be the expert trainer for ISO 50001.

Optimise — Optimal Systems Engineering Sdn Bhd — Engineering Sustainability

Registration Form

Course Fees	:	according to brochure
P.I.C	:	Mr Axel / Ms Thulasi / Ms Huda
Numbers	:	+60167167248 / +075536244
Website	:	www.optimalsystems.my
Hours	:	Sunday - Thursday (9.00am - 5:00pm)

Course Title	
Course Date	

Registration Form email to training@optimalsystems.my

PARTICIPANTS' DETAILS

1.	Name			
	Position		Mobile No.	
	Email address		[redacted]	
2.	Name			
	Position		Mobile No.	
	Email address		[redacted]	
3.	Name			
	Position		Mobile No.	
	Email address		[redacted]	
4.	Name			
	Position		Mobile No.	
	Email address		[redacted]	
5.	Name			
	Position		Mobile No.	
	Email address		[redacted]	

ORGANIZATION DETAILS

Company/Organization			
Address			
Email		Telephone	

Payment / Terms & Conditions

For **confirmation of seat**, you are required to pay in full (for individual/organization) or with LOU agreement (for organization only, T&C applies) within 7 days upon registering. Any cancellation made by trainee 14 days before the training date, the full amount will be non-refundable but transferable. All promotion prices will require **confirmation of seat** to be eligible. The **Full Payment** can be made payable to:

Name : OPTIMAL SYSTEMS ENGINEERING SDN BHD
Bank : CIMB Bank
Account No. : 8007376166
Email to : account@optimalsystems.my
cc to : training@optimalsystems.my

Organization Stamp*

TENTATIVE

HOW TO FIND HIDDEN EFFICIENCY POTENTIALS IN YOUR EQUIPMENT ENERGY CONSUMPTION

Day 1	
9.00 am - 10.00 am	**Introduction to Energy Audit**
10.00 am - 10.15 am	Tea break
10.15 am - 1.00 pm	**Introduction to Energy Audit (Cont.)** **Basic Flow Chart**
1.00 pm - 2.00 pm	Lunch
2.00 pm - 4.30 pm	**Electric Motors** **Pumping System**
4.30 pm - 5.00 pm	Tea Break & Discussion

Day 2	
9.00 am - 10.00 am	**Compressed Air System**
10.00 am - 10.15 am	Tea break
10.15 am - 1.00 pm	**Compressed Air System (Cont.)** **Cooling Tower**
1.00 pm - 2.00 pm	Lunch
2.00 pm - 4.30 pm	**HVAC And Refrigerant System** **Fans And Blowers**
4.30 pm - 5.00 pm	Tea Break & Discussion

This schedule is subjected to minor changes by the Organizer without prior notice.

For the latest training dates: kindly refer to **bit.do/optimise-training**

For online registration: go to **bit.do/training-register**

For offline registration: Fill up form and email to **training@optimalsystems.my**