

# 1-Day Webinar on “Conducting HAZOP Study for Your Process Systems”

**TARGET PARTICIPANT** : Engineers & Managers

**Speaker:** Ir. Dr. Eow John Son

**Training Dates 2022:**

- 10 & 11 June 2022
- 07 & 08 October 2022

**Mode:** Webinar (via Zoom)

**Time:** 9.00am – 1.00pm



## COURSE SYNOPSIS

This 1-day course will help you to develop a better understanding of all things HAZOP (Hazard and Operability Study), in relation to Process Safety Management (PSM), which is now gaining wide acceptance and importance in many industries, especially in the oil & gas, chemical and process industries. HAZOP study is a structured and systematic assessment of a complex planned or existing process or operation in order to identify and evaluate problems and issues that may represent hazards and risks to personnel, equipment, facilities and/or organization.

This course will also help you to understand the HAZOP study methodology and terminology, its benefits and limitations, the roles and responsibilities of HAZOP participants, and when the HAZOP study technique should be applied to assess the hazards and risks of your process systems and/or operation.

## Topics Cover

- ✓ Introduction to the Concept of Risk and Process Safety Management (PSM)
- ✓ What is a HAZOP study ?
- ✓ The HAZOP study methodology – nodes, deviations, causes
- ✓ The HAZOP study methodology – consequences, safeguards, recommendations
- ✓ Who should participate in a HAZOP study – roles and responsibilities
- ✓ Documents required for a HAZOP Study.
- ✓ Case Studies on conducting a HAZOP study.

## Biodata of Trainer



John is a professional HAZOP & LOPA Study facilitator, and has successfully conducted HAZOP and/or LOPA study reviews for Murphy Oil Company, LOTTE Chemicals Titan Pasir Gudang, PETRONAS Penapisan Melaka Refinery, The Polyolefin Company Singapore, BASF-Petronas, etc. He is also an Assistant Professor in Chemical & Process Engineering with Singapore Institute of Technology, and a Chartered Chemical Engineer and a Professional Engineer (Malaysia), with more than 16 years' experience in the Oil & Gas and Process industries, having worked with produced water

treatment, seawater treatment & injection, offshore sand separation, crude oil dehydration-desalting, and gas processing technologies and equipment.

Over the years, he has worked as a specialist process engineer with technology-provider companies, such as Global Process Systems International, Keppel Offshore and Marine (Singapore), Cameron Process Systems (Singapore, Japan and Malaysia), EDES Technology Sdn Bhd.

His experiences cover from Technical and Commercial Proposal work to Detailed Engineering Design to Commissioning to Production Improvement and Troubleshooting for oil & gas production processes. John has also completed process engineering consultancy work, technical training and HAZOP & LOPA review workshops for many clients, including Saudi Aramco, SABIC, PETRONAS, Sarawak SHELL, GAIL India, CNOOC, Murphy Oil Sarawak, Transwater API, CPOC, Prosernat, Boustead-Salcon Water Solutions, HI Technics System Malaysia, Sapura Energy Malaysia, ALTON International Singapore, LOTTE Chemicals Titan, HS Compression and Process Singapore, Turcomp Engineering, etc.

This course will also help you to understand the HAZOP study methodology and terminology, its benefits and limitations, the roles and responsibilities of HAZOP participants, and when the HAZOP study technique should be applied to assess the hazards and risks of your process systems and/or operation.

IEMTA IS REGISTERED WITH:



SST ID No. B16-1901-32000051  
(Wholly owned subsidiary of The Institution of Engineers, Malaysia and formerly known as IEM Training Centre Sdn. Bhd.)  
Website: [www.http://iemtasb.weebly.com/](http://iemtasb.weebly.com/) Email: [iemta@iem.org.my](mailto:iemta@iem.org.my)

## DAY 1

- Topic 1: Introduction to the Concept of Risk, Process Safety Management.
- Topic 2: What is a HAZOP Study?
- Topic 3: The HAZOP Study Methodology – Nodes, Deviations, Causes.
- Topic 4: The HAZOP Study Methodology – Consequences, Safeguards, Recommendations.

## DAY 2

- Topic 5: Who Should Participate in a HAZOP Study – Roles and Responsibilities
- Topic 6: Documents required for a HAZOP Study.
- Topic 7: HAZOP Study Technique for Batch Process, Activity-Based, Procedural HAZOP
- Topic 8: Conducting a practical HAZOP study based on an actual process in the oil & gas industry
- Topic 9: Q & A Session, Conclusion / Evaluation



## Learning Outcomes:

On the completion of this course, you will learn and understand:

- the Concept of Risk and Process Safety Management (PSM),
- the principles and methodology of a HAZOP study,
- the resources required for a HAZOP study,
- how the HAZOP study progresses,
- the benefits and deliverables of HAZOP study,
- provide opportunity to participate in HAZOP studies.

IEMTA IS REGISTERED WITH:



## 1-Day Course on "Conducting HAZOP Study for Your Process Systems"

Tick (/)	Dates	Online Rate (IEM/AER Member)	Online Rate (Non-IEM/AER)
	10 & 11 June 2022	<input type="checkbox"/> RM403.00	<input type="checkbox"/> RM562.00
	07 & 08 October 2022	<input type="checkbox"/> RM403.00	<input type="checkbox"/> RM562.00
Group Rate of 5 person will be given 10%			

No	Name(s)	M'ship No.	Grade	Fee (RM)*
<b>TOTAL PAYABLE</b>				

You may make payment via **ONLINE TRANSFER** (Please forward soft copy of payment advice):-

Account Name: **IEM TRAINING CENTRE SDN BHD**  
 Account Number: 514169143176  
 Bank Name: Malayan Banking Berhad  
 Bank Address: Jalan Sultan, 46200 Petaling Jaya, Selangor Darul Ehsan, Malaysia  
 Swift Code: MBBEMYKL

**OR**

Payment via **CREDIT CARD**  
 Please charge to my credit card number below the amount of RM

Card Type:  VISA     MASTERCARD

Card Number:

Cardholder's Name:

Signature:       Date:

Contact Person:
Designation:
Name of Organization:
Address:
Telephone No. -
Office:
H/Phone
Email: