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TWO-DAY COURSE ON SIL TRAINING FOR TEAM MEMBERS - A PRACTICAL APPROACH

By:

Ir. Razmahwata Mohd Razalli**Chemical Engineering Technical Division, IEM**

12 January 2016 & 13 January 2016

(Tuesday & Wednesday)

9.00 am – 5.00 pm

C&S / TUS Lecture Rooms, 2nd Floor, Wisma IEM, Petaling Jaya**BEM Approved CPD/PDP Hours: 13**

Ref. No.: IEM15/HQ/443/C

Name(s)	Grade & IEM M'ship No.	Fees (RM)
	SUB TOTAL	
	Add GST @ 6%	
Total Amount Payable		
Cheque no. _____ for the amount of RM _____ (non-refundable) and made payable to " THE INSTITUTION OF ENGINEERS, MALAYSIA ". I/We understand that the fee is not refundable if I/We withdraw after my/our application is accepted by the organizing committee as stated in the cancellation term. If I/We fail to attend the seminar the paid registration fee will not be refunded.		

TERMS & CONDITIONS:

- For ONLINE REGISTRATIONS, only ONLINE PAYMENT is applicable [via RHB and Maybank2u –Personal Saving & Personal Current; Credit Card - Visa/Master].
- Payment via CASH / CHEQUE / BANK-IN TRANSMISSION / BANK DRAFT / MONEY ORDER / POSTAL ORDER / LO / WALK -IN will be considered as NORMAL REGISTRATION
- FULL PAYMENT must be settled before commencement of the course, otherwise participants will not be allowed to enter the hall. If a place is reserved and the intended participants fail to attend the course, the fee is to be settled in full.
- Fee paid is not refundable. Registration fee includes lecture notes, refreshment.
- The Organizing 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.

PERSONAL DATA PROTECTION ACT

I have read and understand 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.

Registration Fees		
Grade	Online Registration	Normal (Offline)
IEM Student Member	RM 300	RM 380
IEM Graduate Member	RM 950	RM 1000
IEM Corporate Member	RM 950	RM 1000
Non IEM Member	RM 1200	RM 1250

Closing Date: 9 January 2015*No Online Registration will be allowed after the Closing Date.*

Important Note: IEM members are required to produce their IEM membership cards for CPD scanning at the start and end of the course.

TENTATIVE PROGRAMME

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DAY 1: 12 January 2016, Tuesday	
Time	Details
8.30 – 9.00 a.m.	Registration
9.00 – 10.30 a.m.	Session 1: Introduction to Process Hazards Analysis
10.30 – 11.00 a.m.	Refreshment Break
11.00 – 1.00 p.m.	Session 2: SIL Study – The Methodology SIL Study – The Session
1.00 – 2.00 p.m.	Lunch Break
2.00 – 3.00 p.m.	Session 3: SIL Study – The Session
3.00 – 3.30 p.m.	Tea Break
3.30 – 5.00 p.m.	Session 4: SIL – The Role Play
DAY 2: 13 January 2016, Wednesday	
Time	Details
9.00 – 10.30 a.m.	Session 5: Continue SIL Workshop
10.30 – 11.00 a.m.	Refreshment Break
11.00 – 1.00 p.m.	Session 6: LOPA – The Methodology
1.00 – 2.00 p.m.	Lunch Break
2.00 – 3.00 p.m.	Session 7: LOPA – The Session
3.00 – 3.30 p.m.	Tea Break
3.30 – 4.30 p.m.	Session 8: LOPA – The Role Play
4.30 – 5.00 p.m.	Workshop Review

BIODATA OF SPEAKERS



Ir. Razmahwata has 19 years of experience in the oil and gas industry, in both design and operations. He joined ExxonMobil Exploration and Production Malaysia Inc shortly after graduation in 1995. In 1998, he was reassigned to EMEPMI's operations department. His responsibility was to provide technical support to an offshore production facility. His tasks were varied, included troubleshooting day to day challenges, managing retrofit projects, and leading safety cases. He was made the Company's custody metering engineer in 2001, charged with leading the exercise to ensure the

Company compliance with industry and company specifications was enhanced. He was involved in a number of management level committees. Whilst in Poyry, Ir. Razmahwata has been a Senior Process Engineer for SembCorp's Betara project. He was on secondment to Talisman Malaysia, supporting preliminary work on their Bunga Raya CO₂ removal system and authored a mercury management plan. He was seconded as a Senior Process Engineer at Ranhill-Worley, and subsequently provided project management support to Conocophillips Indonesia's (COPI) Singapore Onshore Facilities. He managed the preparation of an operating manual set for Shell Sarawak and lead COPI in compiling a site training program. He has also led Exxonmobil's effort in the upgrading the custody transfer management processes. He has HAZOP leadership experience on offshore facilities. He has recently worked on a secondment providing detailed design services to a tanker to FPSO conversion project in Singapore. He supported ExxonMobil in developing measurement manuals, and leading an exercise to validate 59,000 line items. He is currently the Lead Engineer of IGL Services Sdn Bhd.

SYNOPSIS

SIL

In the Layer of Protection methodology, a layer of protection designed to eliminate cause of risk or minimize the consequence of an event is the Safety Instrumented Function (SIF). The expectation of the SIF's reliability to perform upon demand must be defined so that it is designed appropriately. The Safety Integrity Level (SIL) study is a tool used this.

Layer of Protection Analysis (LOPA) is a semi-quantitative risk analysis technique. It is more rigorous than a HAZOP but less time-intensive than a quantitative risk assessment (QRA). LOPA evaluates risks by orders of magnitude of selected accident scenarios and builds on information developed in qualitative hazard evaluation.

This full day course is designed to educate participants in the SIL process from the perspective of a SIL team member. It is meant to provide both instruction and workshop sessions so that the participants:

- Are familiar with the concept of 'risk'
- Are familiar with the theory behind Layers of Protection and SIF
- Are familiar with the different SIL methodologies: risk graph, risk matrix, LOPA.
- Have expectations as to what the SIL workshop will (and won't provide)
- Understand what deliverables can be expected from a SIL workshop.
- Have the opportunity to participate in SIL exercise in a safe environment.
- Opportunity to share SIL experiences.

At the end of the session, the participants should:

- Understand the responsibilities of all parties in the SIL.
- Have experience in a SIL session.
- Understand the outcomes from a SIL session.