

INTERGRATING SAFETY, SUSTAINABILITY & ENGINEERING IN LABORATORY DESIGN

Date : 23 - 24 November 2016

Time : 9:00am – 5:00pm

Venue : Republic Plaza II, No. 9 Raffles Place,
Level 18, Trademark Meeting Room

COURSE OVERVIEW

- Design laboratories to suit the purpose of the organization.
- Minimize the risk of harm to laboratory users as well as environment impact.
- Cover 4 major types of hazard typically in the laboratory.

COURSE OBJECTIVES

- Team work in design of laboratory.
- Critical planning and the effects on setup cost and operation cost.
- The application of the “thinking” operability studies and energy minimisation.
- Design of lab including layout, support services, design for safety and sustainability in chemical, biological, radiation and physical hazards that may be in the lab.
- Understanding the fundamentals of the equipment to be used (hazards), the energies consumed and the waste generated in the process.
- The legal consequences of poor design and the impact of the local laws and regulations.

COURSE OUTLINE

Laboratories is a vital part of many manufacturing industries. From food, healthcare, pharmaceutical, oil & gas, including even institutes of higher learning, laboratories designs are rather unique, challenging and complex in many aspects. There are many technical considerations when integrating engineering concept to ensure safety and sustainability in a modern lab environment are being addressed.

The course is to provide some practical suggestions to what have to be considered in the design of a laboratory to suit its purpose in the organisation. This has to be done with the aim of minimising risk and hazards to the laboratory users, minimising huge operating, maintenance and infrastructure cost, minimising environment impact and above all, be in compliance with the regulatory and industrial best practices.

This course will cover major types of hazards that are likely to be in most laboratories and how engineering design can affect the well being of the people and the environment.

TARGET AUDIENCE

- Environment, Health & Safety personnel
- Lab Management
- Lab Staff
- Lab Architects/Designers
- Engineers

Organized by:



Sustainable Energy Association of Singapore (SEAS)

No. 1 Cleantech Loop #02-16 Cleantech One Singapore 637141 | Tel: +65 6337 9886 / 6338 8578

Email: training@seas.org.sg | www.seas.org.sg

About SEAS

The Sustainable Energy Association of Singapore (SEAS), an industry association launched in 2006, today has 160 members in the area of Energy Efficiency, Solar, Wind, Biomass, Carbon and Clean Energy Financing. SEAS aims to be the voice of sustainable energy industry and promote the business of its member companies.

SEAS also specialises in training, courses and conferences focussed on sustainable energy. SEAS aims to be the one-stop information and training provider in the area of sustainable energy.



About Ted Traum Institute

TTI offers a wide range of training topics on scientific safety ranging from Biological, Chemical and Radiological applications to Engineering Design and Safety SOPs. Our mission is to inculcate scientific safety awareness to our learners through quality, relevant and innovative courses. TTI invites only accomplished professionals in their specific subject matter as our speakers. We assure our participants the highest quality in all our courses.

TTI is named after Mr. Ted Traum, P.E., a sought after speaker and established biocontainment engineer from USA. He frequently travels to Asia to lend his expert views for government and private projects.

About The Trainer

Dr. Lee Kien Wah attained his PhD of Chemical Engineering from the University of Melbourne. With over 20 years of management experience in the field of Environmental, Health & Safety and his appointment with multinational companies including oil & gas, pharmaceutical, government agencies & universities makes Dr. Lee a suitable subject matter expert for this course.

Dr. Lee was the Chief Health and Safety officer for Nanyang Technological University for 8 years. The EHS challenges from different schools are unique and often dynamic. Participants will learn about solving safety issues in different laboratory settings.

Registration Form

- Yes! I would like to register for this programme.
 I am unable to attend but please put me on your mailing list.

Please indicate if you are our SEAS Member	Early Bird (Registration with payment made on/before 15 Oct 2016)	Normal Fee	Group Fee	No. of Delegates	Fee Payable
<input type="checkbox"/> SEAS Member	S\$750.00	S\$800.00	-		
<input type="checkbox"/> Non Member	S\$800.00	S\$850.00	-		

* Fees are inclusive of GST.

* Fees include refreshments and programme collateral.

* Only one type of discount scheme is applicable at any one time.

* Please print and complete additional sheets where necessary.

* Important: Walk-in delegates will only be admitted on the basis of space availability and with full payment made on site.

Administrative Information

Registration and Payment

Please complete the enclosed registration form and forward it together with your cheque at least 7 days before the commencement of the programme to

**Sustainable Energy
Association of Singapore
No. 1 Cleantech Loop #02-06
Cleantech One, Singapore 637141**

Crossed cheque should be made payable to

**“Sustainable Energy
Association of Singapore”**

Cancellation

SEAS reserves the right to change programme venue, cancel or reschedule the programme if necessary or warranted by circumstances beyond our control.

There will be no refund of fees for withdrawal. However, if the registration participant is unable to attend, a representative may be allowed to attend at no extra cost. Please inform us of the changes by fax or via email 3 days before the commencement of the programme.

Participant's Details

- Name (*Dr/Mr/Mrs/Ms): _____ NRIC: _____
Designation: _____ HP No: _____
Email: _____ SCEM No: _____ PE No: _____
- Name (*Dr/Mr/Mrs/Ms): _____ NRIC: _____
Designation: _____ HP No: _____
Email: _____ SCEM No: _____ PE No: _____
- Name (*Dr/Mr/Mrs/Ms): _____ NRIC: _____
Designation: _____ HP No: _____
Email: _____ SCEM No: _____ PE No: _____

Organization's Details (For Billing)

Company Name: _____
Company Address: _____
Postal: _____
Contact Person's Name (*Dr/Mr/Mrs/Ms): _____
Tel: _____ Fax: _____
Email: _____

Confirmation of Registration

Confirmation of registration will be given 5 working days before the commencement date via email. Registration is confirmed only upon receipt of payment.

If you do not hear from us

**Please contact Ms. Agnes Seah at:
Tel: 63379886 / 63388578**

Email: training@seas.org.sg