

ISHRAE INSTITUTE OF EXCELLENCE

ISHRAE MUMBAI CHAPTER

Dear Sir / Madam,

Here is a great opportunity to brush up your knowledge in cleanrooms. IIE Mumbai announces Workshops in **Clean-room Design and Validation**. The training course in 2 modules will be held on **5~7th Aug and 21st Aug 2010**

Time: 9.30AM to 5.30 PM.

Venue: Trinity Academy for Corporate Training Ltd.

Trinity House Plot No. 5/B
Qureshi Nagar, Kurla (East)
Mumbai- 400 070

Tel: 022-24056712-16

FAX: 022- 24056717

Module I :-

Clean Room Design & Validation , 3 days (5,6&7th Aug10,Thursday to Saturday 9.30AM to 5.30 PM)

Faculty: Mr. Sasidharan S Menon & Mr.Sheesh Gulati

Course content:

Elements of Clean room design engineering
Particles in Clean rooms-Theory and practical demonstration
HEPA/ULPA filters, Design and testing with Demo.
International Standards on clean rooms and GMP guidelines
ISO 14644-4 Design, construction and start up of cleanrooms
Clean room finishes ,flooring, panels and other alternative construction materials
Cleanroom protocol and Gowning
Airflow visualization
Calibration of particle counters-new ISO21501
Microbial Monitoring of Cleanrooms
Documentation requirements including new ASTM E 2500

Course fee:

Inclusive of course material, snacks & lunch **Rs.6000/-**

Module II :-

Air conditioning for Clean Rooms , 1 day , Saturday (21st Aug 10 9.30 AM to 5.30 PM)

Faculty: Mr. B. Gautham Baliga

Course content:

Clean Room classification
Air Filtration
Role of Air-Locks
Pressure Gradients,Air Infiltration and Exfiltration calculations.
Calculation of Air changes required for maintaining class conditions
Calculation of Air quantities required for Dehumidification
Air Handling Unit Configuration.

Course fee:

Inclusive of course material, snacks & lunch **Rs.3000/-**

About the Faculty

Mr. Sasidharan S Menon is BE (Electrical) from Calicut University..He has vast experience in cleanrooms from his tenure in Klenzaid & Teknopak. He is an expert trainer for operating personnel on GMP guide lines,ISO standards and ICH,ASTM E 2500 guidelines.He is an active member of IPA,IDMA(PEG),ISPE,CCSI & ISHRAE.

Mr.Sheesh Gulati is B.E.from Poona university & post graduate from Loughborough University,U.K.He has vast experience in sophisticated measuring instruments. He is CEO of Measure Test Corporation Mumbai .He has been a distinguished guest faculty at Dept.of Atomic Energy, ASHRAE/ISHRAE etc. He is member of ISPE. IMDA, IPA, ISHRAE and is Secretary of Contamination Control Society of India.

Mr. B. Gautham Baliga is Director with Opal HVAC Engineers Pvt.Ltd. a company involved with design, installation and commissioning of HVAC systems for Pharma, Food, Industrial and Comfort applications for last 21 Yrs. He was earlier with Voltas Ltd. for 9 Yrs .He holds a B.Tech (Mechanical) degree from IIT Kharagpur. He is past president of ISHRAE Mumbai chapter and is an active Member of the chapter.He is Ishrae Distinguished Speaker.