

Two days' Seminar on:

DESIGN, QUALIFICATION, VALIDATION & MAINTENANCE OF HVAC SYSTEM

Date: 29th August & 30th August 2025

Faculty: Mr. Bharat Bhamre
Mr. Sunil Dave



Program Facilitator:
Dr. Milind Pathak

Organized By:

QUALITY CIRCLE FORUM OF INDIA
Ankleshwar chapter- Pharmaceutical Wing

Opp. State Bank of India (Main Branch), Station Road, Chaut-Maka, Ankleshwar- 393001.

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Background:

HVAC System plays vital role in Pharmaceutical Industries. **Heating, Ventilation, and Air Conditioning** is the technology of indoor and vehicular environmental comfort. Its goal is to provide thermal comfort and acceptable indoor air quality. HVAC system design is a subdiscipline of mechanical engineering, based on the principles of thermodynamics, fluid mechanics and heat transfer.

HVAC is an important part of residential structures such as apartment buildings, hotels medium to large industrial and office buildings such as skyscrapers and hospitals, Pharmaceutical Plants where safe and healthy building conditions are regulated with respect to temperature and humidity, using fresh air from outdoors.

HVAC System is the process of exchanging or replacing air in any space to provide high indoor air quality which involves temperature control, oxygen replenishment, and removal of moisture, odors, smoke, heat, dust, airborne bacteria, carbon dioxide, and other gases. Ventilation removes unpleasant smells and excessive moisture, introduces outside air, keeps interior building air circulating, and prevents stagnation of the interior air.

Methodology of Seminar:

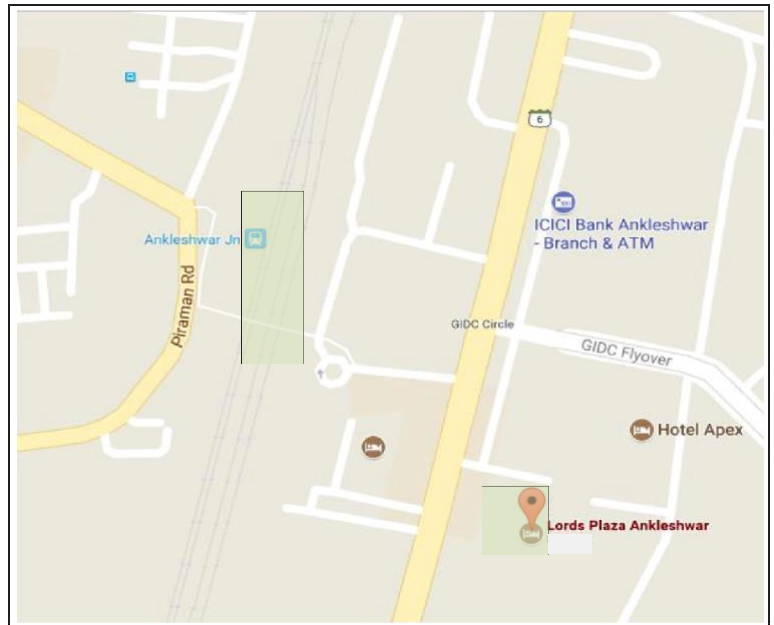
- Program is consisting of Power point Presentation, Audio/Visuals and Case Studies of trouble shooting.
 - It will be a participatory seminar encouraging questions and sharing experiences between experts and participants.
 - Performance of participants will be evaluated based on evaluation test.
 - Participants will be awarded certificates from “Quality Circle Forum of India”.
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Schedule and Venue of Seminar:

- **Date:** 29th August, 2025 & 30th August, 2025 (Two days)
- **Time:** 09:00 am to 05:30 pm
- **Venue:** Hotel **Lords Plaza**, Station Road, Ankleshwar (East), Dist.: Bharuch-393001, Gujarat.

Information for Participant's convenience:

Venue of seminar is just 5 minutes walking distance from the premises of Ankleshwar Railway Station (East side).

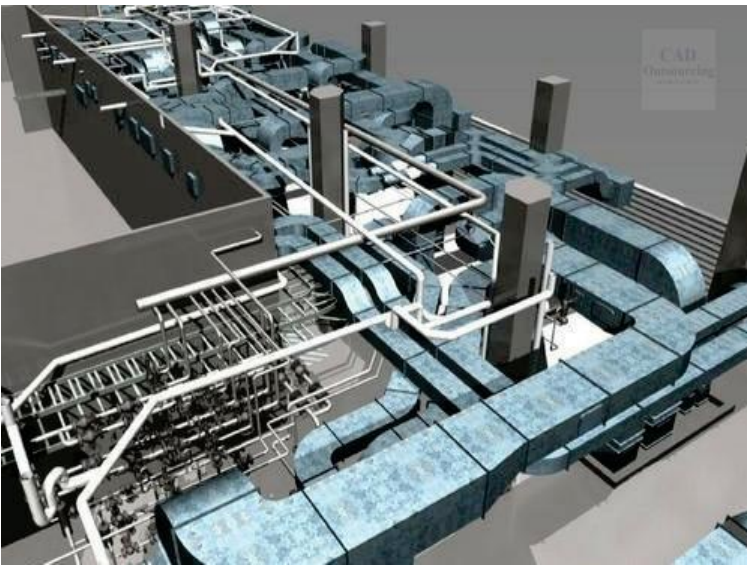
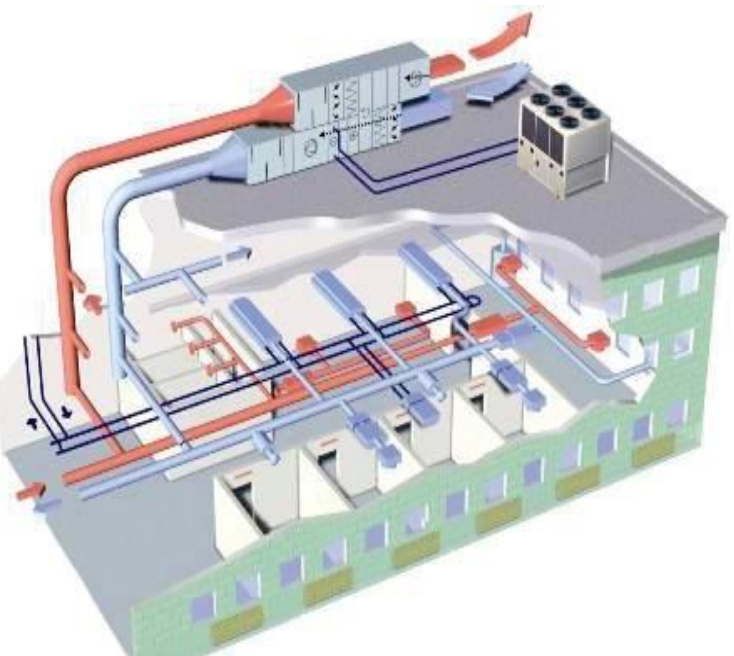


ASSOCIATED BY: PDVD CONSULTANCY, S-20,21, ATC, ASIAN PAINT CHOKDI, ANKLESHWAR

- Turnkey Projects Planning, Designing & Implementation.
- Audit & Gap Analysis of Existing Plant.
- Validation, Documentation Service to Pharma Plant
- FDA Licensing Activity
- Training related to Pharma Quality System
- Regulatory Compliance Services

Course Agenda:

Day – 1 (29.08.2025)	
8:45 to 9:00 am	Registration and Breakfast
9:00 to 10:00 am	Inauguration, Introduction and blessing Speech by Chief Guest
10:00 to 10:15 am	Introduction of HVAC System
10:15 to 10:30 am	Design Aspect of HVAC System
10:30 to 11:30 am	Functions of HVAC
11:30 to 11:45 am	Tea-Break
11:45 to 12: 15 pm	Important Factors for Calculating Cooling Load.
12:15 to 1:15 pm	Qualification of HVAC System.
1:15 to 2:15 pm	Lunch – Break
2:15 to 3:30 pm	Audio/Visuals on HVAC System:
3:30 to 3:45 pm	Tea – Break
3:45 to 5:30 pm	Qualification on HVAC System:



Day – 2 (30.08.2025)	
8:45 to 9:00 am	Breakfast
9:00 to 11:30 am	Validation of HVAC : <ul style="list-style-type: none">• Air Changes Per Hr.• HEPA Filter Integrity Test• Measurement of Particle Count.• ISO14644-1, US FED & EU GMP Classification
11:30 to 11:45 am	Tea – Break
11:45 to 1:15 pm	Maintenance of HVAC : <ul style="list-style-type: none">• P.M. of HVAC• Filter Cleaning of HVAC• Calibration of Magnehelic Gauge
1:15 to 2:15 pm	Lunch – Break
2:15 to 3:30 pm	Audio/Visuals on HVAC System: Case Study.
3:30 to 3:45 pm	Tea – Break
3:45 to 4:15 pm	USFDA 483 Observation on HVAC system
4:15 to 4:45 pm	Test
4:45 to 5:30 pm	Valedictory Function

Seminar Charges:

- INR 7,000/- per participant + 18 % GST (Total 8,260 /- INR).
- Course fee includes reading material, tea-snacks and working lunch.
- This seminar is a non-residential event.

Registration Procedure:

- Registration can be acknowledged on niketan35@yahoo.co.in or gcfi.ank@gmail.com, bkbhamre@yahoo.co.in
- Demand draft or Cheque are requested in favour of “Quality Circle Forum of India” and can be submitted at following address.

**“QUALITY CIRCLE FORUM OF INDIA,
Ankleshwar Chapter**

Opp. State Bank of India (Main Branch), Station Road, ANKLESHWAR-393001, Dist.: Bharuch (Gujarat)”

- GST number and Bank details shall be provided for payment through NEFT at niketan35@yahoo.co.in, bkbhamre@yahoo.co.in if requested.
- Call on **+91 09377434079, 9898330258** for any additional information related to seminar, if required.

Seminar Faculties:

- **Mr. Bharat Bhamre**

Mr. Bharat Bhamre has 35 years of experience in various leading Indian and multinational pharmaceutical API organizations up to Engineering head level. His Core area is Engineering, Maintenance and implementing Projects in Pharma Plant. He was Internal Auditor for ISO: 9001 (QMS), ISO 14001 (EMS) & ISO: 18001 (OHSAS) System. He is Lead Auditor for ISO 9001:2015 Quality Management System. He has successfully faced Regulatory Audit like USFDA, EDQM, Maxican FDA. WHO-GMP etc. He has been associated with QCFI as Faculty Members for Ankleshwar Chapter.



- **Mr. Sunil Dave**

Mr. Sunil Dave has 32 years of Experience in various Pharmaceutical Organization up to Factory Head and Project Head position. He is Associated Member of “**The Institution of Engineers (India)**” and **Chartered Engineer (India)**.



Audit Faced:

- FDCA, WHO- GMP
- USFDA, ANVISA (Brazil)
- KFDA, Cofepris & MHRA
- Training expertise including all utility equipment, HVAC and purified water system.