



1 QUALITY CIRCLE FORUM OF INDIA
ANKLESHWAR CHAPTER
PHARMACEUTICAL WING

Organizing Two days' Workshop on:

Design, Qualification, Validation & Maintenance
Aspect of PURIFIED WATER System

Date : 14th & 15th June, 2024



Program Facilitator: Ms. Alka Kale

Experts: Mr. Bharat Bhamre
Dr. Milind Pathak

Organized By:

QUALITY CIRCLE FORUM OF INDIA

Ankleshwar chapter - Pharmaceutical Wing

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Purified Water System:

The pharmaceutical industry utilizes purified water as one of the main ingredients for processing, formulating, and manufacturing pharmaceuticals and other active ingredients. Water can be used to reconstitute products, aid in synthesis, as a cleaning agent, and for the production of finished products. The USP monographs explain the various water grades used for pharmaceutical production and acceptable methods to produce each.

Purified Water systems typically include two stages that treat the facility's feed water, which must always meet the local regulatory requirements for potable water quality. Pretreatment is the initial stage, which modifies the water quality to reduce target contaminant groups that can damage or otherwise interfere with the performance of downstream unit treatment processes.

The second stage is the final treatment, sometimes called preparation, which further treats the pretreated water to meet the final purified water quality requirements. Most modern systems include at least one pass of reverse osmosis to reduce all contaminant groups except gasses (e.g. inorganic, organic, and biological) followed by a polishing step, such as Electrode ionization (EDI) or other deionization processes, to further reduce conductivity below the target limit before storage. Additional post-treatment technologies can also be included depending on the requirements of each individual application, such as UV, submicron filtration, and ultrafiltration.

This workshop will focus on explaining the methodology Design, Qualification, Validation, & Maintenance Aspect of PURIFIED WATER System.

Methodology of Workshop:

- It will be a participatory workshop encouraging questions and sharing experience between experts and participants.
- Participants will be awarded certificates from "Quality Circle Forum of India" after successful participation in a workshop.

Course Agenda:

Day 1	
08:45 to 09:00	Breakfast & Registration
09:00 to 09:30	Inauguration of Workshop
09.30 to 09.45	Introduction of Topic
09:45 to 10:00	Water for Pharmaceutical Plant
10.00 to 10.15	Pretreatment
10.15 to 10.50	Water Purification Engineering
10.50 to 11.30	Different Scheme to produce Purified water
11:30 to 11:45	Tea - Break
11.45 to 13.00	Reverse Osmosis System (RO)
13.00 to 13.45	Lunch Break
13.45 to 14.45	Video on Purified water System
14.45 to 15.15	Dozing System
15.15 to 15.30	Tea Break
15.30 to 17.00	Polishing Treatment
17:00	Closure
Day 2	
08:45 to 09:00	Breakfast
09:00 to 09:30	Recap
09.30 to 11.30	Demineralization Or De-ionization, Post Ultra Filtration System
11.30 to 11.45	Tea Break
11.45 to 12.30	Storage and Distribution System
12.30 to 13.00	Passivation, Sanitization, Boroscopy, Instrument Control etc.
13.00 to 13.45	Lunch Break
13.45 to 14.15	Video on Purified water System
14.15 to 15.15	Validation and Qualification of Purified water
15.15 to 15.30	Tea Break
15.30 to 16.00	Maintenance of Purified water System
16.00 to 16.45	Valedictory function
16.45 to 17.00	Feedback and Certificate Distribution
17:00	Closure

Schedule and Venue

- **Date:** 14th & 15th June, 2024 (two days)
- **Time:** 09:00 am to 05:00 pm
- **Venue:** Hotel Lords Plaza, Near Railway Station, Ankleshwar – 393002.

Information for Participant's convenience:

Venue of Workshop is just 5 minutes walking distance from Ankleshwar Railway Station.

Workshop Charges:

- INR 9,000/- per participant + 18 % GST (Total 10,620 /- INR).
- Course fee includes training material, tea-snacks and working lunch.
- This workshop is a non-residential Workshop.

Registration Process:

- Registration can be acknowledged on qcfi.ank@gmail.com.
- 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 qcfi.ank@gmail.com, if requested.
- Call on 9377434079 / 8200356803 / 9375233039 for any additional information and registration.