

# PEGANIX



## PHARMACEUTICAL WATER SYSTEM DESIGN, OPERATION, & VALIDATION

For Plant Operators, Engineers, and Managers

25<sup>th</sup>, 26<sup>th</sup> & 27<sup>th</sup> May 2022

JOHANNESBURG, SOUTH AFRICA



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@peganix

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The objective of this intensive education course is to enable the participants to pay optimal attention to critical issues during design, qualification and routine operation of pharmaceutical water systems.

**You will learn:**

- How to meet the pharmacopoeial requirements
- How to find the critical design aspects in a water system
- How to generate pharmaceutical water and steam in the desired quality
- How commissioning and qualification is done today
- How microbial validation and control is achieved
- How the systems is maintained in a controlled status during its life cycle

## OVERVIEW

Water is one of the most important raw materials in the manufacture of pharmaceutical products. In order to produce water of an appropriate quality, water systems have to fulfill considerable requirements, which are partly set out in detail in the relevant pharmaceutical regulations. Although the characteristics of pharmaceutical waters are sufficiently defined, a large number of questions remain unanswered as regards to the technical implementation of these bodies of regulations in GMP-conform water systems.

The main focus of the course 'Pharmaceutical Water' is therefore on how to put these requirements into practice. In their lectures, experienced specialists will give you important information and support for your own projects and systems, ranging from regulatory requirements, design, qualification, validation and routine operation.

### TARGET GROUP

This GMP course is directed to engineers, production and QA/QC staff, responsible for design, validation and operation of pharmaceutical water systems as well as system suppliers and design engineers.

## COURSE OUTLINE

### DAY 1

**Introduction to Water**

- Chemistry
- Physics
- Microbiology

**Measurement of Water Quality**

- Definitions of Water Types, Quality, Measurement

**Regulatory Standards for Water**

- General

**International Standards and Harmonization Strategies**

### DAY 2

**Design of Water Purification Systems**

- Determination of Water Required for Specific applications
- Basic Design Strategies
- Pre-treatment, Post-treatment Issues
- Treatment Options

**Deionization (Stills vs Membranes vs Ion Exchange)**

- Choice/Integration of Stills Distribution Systems
- Water Storage
- Hot vs. Cold vs. Intermittent Hot, Options
- Points-of-Use Design
- Materials of Construction

**Active Learning:**

- Options in Water System Design Acceptable, Good, and Poor Design Choices

### DAY 3

**Validation**

- Regulatory Requirements and GMP Philosophies
- Validation Strategies
- QA Protocols
- Validation Program

**Start-up, Revalidation, Validation Issues**

- Sampling/Testing Routines
- Revalidation Frequencies Operational Issues and Maintenance
- Sanitization/Sterilization
- Maintenance
- Troubleshooting

**Emerging Trends**

- New Regulatory Requirements, Technologies



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# Pharmaceutical Water System Design, Operation, and Validation

25th, 26th & 27th May 2022 | Johannesburg, South Africa

## Registration Form:

## Register or Enquire

Contact Jeff via:

- 1 Tel : (+27) 11 041 0181 | +2768 053 6221 (What's App)
- 2 Email : registration@peganix.com
- 3 Web : www.peganix.com



### Please register the following delegate(s) for the event

- I would like to claim my group discount
- I would like to use my credit.
- We would like this as an In-House - Dates: \_\_\_\_\_

Number of staff your company/organisation is delegating to the event?

Approving Manager	First Name :	Surname :
Job Title & Department :	Email :	Direct Tel :
Fax :	Country:	Postal Address:
Billing Information / Account Manager	First Name :	Surname :
Full Company Name :	Nature of Business :	
Address :		

## Delegate Attendance information:

**Note:** Please provide information as you wish it to appear on your name badge and on the official participant database.

Title	Delegate Name & Surname	Position	Email Address

### Important Notes

- Corporate or independent registrations will be accepted.
- Fees – Each fee is inclusive of course manual/documentation, morning tea/coffee & snacks, Lunch and refreshments served during the entire event.
- Group Discount:** Groups of 5 or more from the same company (booking at the same time and of the same billing source) can enjoy a **10% off the total delegate fees** or have the **6th delegate come for free**.
- Super Early Bird & Early Bird Promotion:** Early Bird Fees will only be valid if payment is received by stipulated date, after which Regular Fee will apply.
- Full payment is mandatory upon registration for admission to the event.**
- The organizer reserves the right to make any amendments that it deems to be in the interests of the event without any notice.

### Course Fees in Rands

**ZAR 3 999.00\***

Exclusive Vat | Per Delegate

**3 DAYS | VIRTUAL**

### Course Fees in Rands

**ZAR 9 999.00\***

Exclusive Vat | Per Delegate

**3 DAYS | IN-PERSON**

### TERMS & CONDITIONS

By signing and returning the registration form, the authorising signatory on behalf of the stated company is subject to the following Terms & Conditions:

**Transfers;** Transfer requests must be made in writing 7 days before the start of the event

- Please note that speakers and topics were confirmed at the time of publishing, however, circumstances beyond the control of the organizers may necessitate substitutions, alterations or cancellations of the speakers and/or topics.
- As such, Peganix, Reserves the right to alter the advertised speakers and/or topics if necessary. Any substitutions or alterations will be updated on our web site as soon as possible

**Workshop Venue & Hotel Reservation;** Hotel room reservation and hotel billing are to be made by delegates directly with the Hotel. Hotel reservation and travel arrangements are the responsibility of the registrant.

### Cancellations and Substitutions - In-person Seminars

Written cancellations through fax or email (from the person who has registered for this conference) received at least 10 calendar days prior to the start date of the event will receive a refund — less a \$300/R4000 administration fee. No cancellations will be accepted — nor refunds issued — within 10 calendar days from the start date of the event. On request by email or fax (before the seminar) a credit for the amount paid minus administration fees (\$300/R4000) will be transferred to any future Peganix event and a credit note will be issued. Substitutions may be made at any time. No-shows will be charged the full amount. We discourage onsite registrations, however if you wish to register onsite payment to happen through credit card immediately or check to be submitted onsite. Conference material will be given on the spot if it is available after distributing to other attendees. In case it is not available we will send the material after the conference is over. In the event Peganix cancels the seminar, Peganix is not responsible for any airfare, hotel, other costs or losses incurred by registrants. Some topics and speakers may be subject to change without notice.

### Cancellations and Substitutions - Virtual Seminars & Webinars

Written cancellations through fax or email (from the person who has registered for the training) received at least 10 calendar days prior to the start date of the event will receive a refund — less a 30% administration fee. No cancellations will be accepted — nor refunds issued — within 10 calendar days from the start date of the event. On request by email or fax (before the training) a credit for the amount paid minus administration fees (30%) will be transferred to any future Peganix event and a credit note will be issued. Substitutions may be made at any time. No-shows will be charged the full amount. Some topics and speakers may be subject to change without notice.

Full Name:	Job Title:
Signature:	Date:

### CERTIFICATION

Successful participants will receive Peganix' Certificate of Completion

### Payment Policy

**Payment** - In order to secure your registration, payment is due in full upon receipt of invoice.

**Confirmation** - Your registration will not be confirmed until such time as payment is received and may be subject to cancellation.

**Right of Admission** - Peganix reserves the right to refuse admission to the training course where evidence of full payment cannot be shown.

**In-House** - 50% or full payment is to be made to Peganix before running an In-house Training

### Payment Methods

Online Gateway Payment  Electronic Transfer  Direct Deposit  Cash

### Banking Details (South Africa)

Bank:	First National Bank
Account name:	<b>Peganix (Pty) Ltd</b>
Account no.:	62453975701
Branch code:	250 655
Swift code:	FIRNZAJJ
Reference:	Insert your ref number on the deposit slip please