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honeyman GROUP

Proud winners of:

THE QUEEN'S AWARDS FOR ENTERPRISE: INNOVATION 2018

honeyman TRAINING

Pharmaceutical Water Systems

THE QUEEN'S AWARDS FOR ENTERPRISE

PHARMACEUTICAL WATER SYSTEMS

Click for full details

Virtual Training

Who Should Attend?

Personnel involved in the design, management and operation of pharmaceutical, healthcare or biotech water systems from the following disciplines:

Engineering, Quality Assurance, Microbiology, QC, Production, Operations and high purity water SME's.

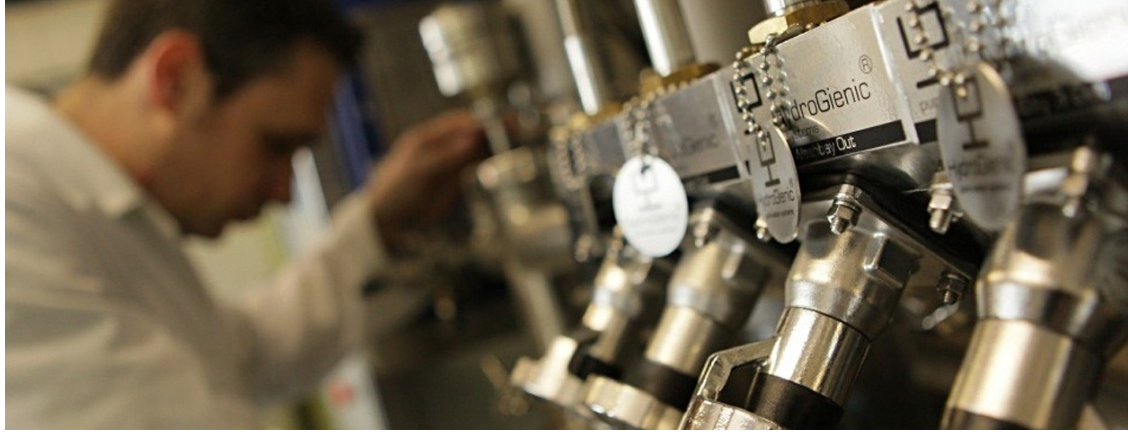
Overview

The Pharmaceutical Water Systems: Principles in Practice® course provides a holistic view of the design, operation and management of compendial water generation and distribution systems.

This industry leading course has been held all over the world and has received unrivalled feedback. Developed and delivered by recognised experts in water system design, validation and support.

Course Objectives & Learning Outcomes

- Understand the different types of compendial water grades, their applications and how they can be achieved
- Understand regulatory requirements, standards and expectations for pharmaceutical water systems
- Be able to write a valuable URS that not only eliminates ambiguity but also provides a solid foundation for the IQ/OQ and PQ validations
- Understand how to design and build water systems cost effectively
- Be able to validate and manage water systems cost effectively
- Be able to compare different strategies for generation, pre-treatment, storage and distribution of pharmaceutical grade water and select the most appropriate for your application
- Understand how GMP can be implemented at the start, your water system
- Obtain a basic knowledge of microbiology and biofilm formation, and the impact on water systems
- Understand the phenomena of Rouge and how this can be managed
- Be able to develop a strategy to monitor the quality of your water system



PHARMACEUTICAL WATER SYSTEMS

Course Programme

Day One

Water Types, Specs Uses and Applications
Purification Methods for Purified Water and Water for Injections (EP/USP)
RO vs Distillation for WFI New EP Proposals
The Purification Train and Pre-Treatments
Storage and Distribution Systems

Day Two

Basic Microbiology of Water Systems
Compendial Water Testing Requirements
Biofilm and Control Strategies
New Builds, the URS and Water Projects
Problems with Conventional Loops
HydroGienic® Solution
Rapid Methods for Monitoring
Water Systems
Rouge
Monitoring and Qualification of Systems

honeyman TRAINING

All courses can be booked online:

Cleanrooms: Principles in Practice®

Pharmaceutical Water Systems

Microbiology for Non-Microbiologists

Sterile Product Manufacture

Cleaning Validation

Pharmaceutical Sterilisation

Microbial Risk Management In Cleanroom Operations

Biotechnology: Principles in Practice®

Honeyman is renowned for industry leading GMP knowledge-transfer, lectures, consultancy and courses delivered face-to-face.

Our Virtual Training helps you 'keep your space' and stay at the top of your game.