



honeyman
TRAINING



Water Systems

Practical Applications

Pharmaceutical Water Systems Practical Applications (Ireland)

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**Dublin, Ireland
3 Day Training Course**



12th - 14th November 2024



Who Should Attend?

This course has been created for personnel involved in the design management and operation of pharmaceutical and biopharmaceutical water systems in the following disciplines:

- Engineering
- Quality Assurance
- Microbiology
- QC
- Production
- Operations

This extremely popular Honeyman Pharmaceutical Water Systems training course includes a site tour at the state of the art Bristol-Myers Squibb facility in Dublin.

During the course there will be an opportunity for delegates to tour some of the site's pure water installations and to speak to personnel from Bristol-Myers Squibb about owning and managing these systems within the pharmaceutical regulatory environment. This shared experience will be invaluable to other pure water system owners and users, and for those planning to build new systems in the future. The course will run over three days.

Course Objectives & Learning Outcomes

- The current pharmacopeial specifications and requirements for pharmaceutical water
- The uses and applications for water in the pharmaceutical and biotech manufacturing facilities
- The methods of purification for Purified Water and Water for Injections
- The building blocks of water systems, and how to configure them to maximise reliability and performance
- Microbiological challenges including Biofilm and how to control them
- The design principles and standard industry practices in storage and distribution systems
- Approaches to quality, management and control of systems
- Workshops designed for delegates to put the principles into practice

Site Tour

As part of the training course, Bristol-Myers Squibb will guide delegates through a tour of their pure water facility, describing its design and operation.

This will provide delegates a unique opportunity to see practical applications.

Course Programme

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Honeyman is renowned for industry leading GMP knowledge-transfer, lectures, consultancy and courses, delivered online and in-person.

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- Compendial Water Qualities and Uses
- Methods of Production – Purified Water
- Methods of Production - WFI
- Distillation vs RO, New EP Monograph Proposals
- The Purification Train and Pre-treatments
- Storage and Distribution Systems
- Handling and Managing Water Projects
- Design Workshop and Discussions
- Introduction to Water Systems at Site
- Site Tour Bristol-Myers Squibb
- Microbiology of Water Systems
- Testing Requirements for Pharmaceutical Water
- Problems with Conventional Systems
- HydroGienic® Solution
- Rouge

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