

Training Course Agenda

399 – Design, Operation, and Qualification of Pharmaceutical Water Systems

DAY 1	
8:30	Welcome and Introductions
9:00	Definition of Pharmaceutical Waters, Regulatory and Validation Considerations
10:30	Coffee/Tea Break
10:45	Impurities in Raw Water
12:00	Lunch
13:00	Pretreatment Techniques
14:30	Coffee/Tea Break
14:45	Ion Removal – Reverse Osmosis
16:00	End of Day 1
DAY 2	
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8:30	Recap Day 1
9:00	Ion Removal – Ion Exchange, Deionization, and Continuous Electrodeionization
10:30	Coffee/Tea Break
10:45	Polishing Components
12:00	Lunch
13:00	Distillation and Pure Steam Generation
14:30	Coffee/Tea Break
14:45	Storage Systems and Accessories – Ozone System and Accessories
16:00	End of Day 2



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DAY 3	
8:30	Recap Day 2
9:00	Distribution Systems, Biofilm, and Microbial Control
10:30	Coffee/Tea Break
10:45	Instrumentation and Controls – Validation I
12:00	Lunch
13:00	Validation II
14:30	Coffee/Tea Break
14:45	Case Histories
16:00	End of Training Course