



من فحص جودة الهياكل لتشغيل التناضح العكسي وإصلاح الهضخات



من فحص جودة المياه لتشغيل التناضح العكسي وإصلاح الهضبات

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Course Overview:

This comprehensive water treatment and pumping systems training program equips professionals with the skills and knowledge required to design, operate, and troubleshoot potable water treatment plants, pumping stations, and reverse osmosis RO systems. The course integrates water quality testing training, potable water treatment fundamentals, and reverse osmosis training course modules into one advanced program.

Participants will explore water treatment plant operations, learn pumping station design and operation, and gain hands-on insights into pump troubleshooting training and RO system installation and maintenance. The curriculum includes membrane filtration and RO system training, advanced water chemistry, microbial and chemical testing, and case studies of real-world water plant operations and maintenance.

By combining theoretical foundations with practical applications, this course delivers a comprehensive water treatment training pathway for engineers, operators, and managers, ensuring they are well-prepared for today's challenges in water treatment and distribution training.

Target Audience:

- Water treatment plant operators and supervisors
- Pumping station engineers and technicians
- Water quality analysts and laboratory staff
- Civil, mechanical, and environmental engineers
- Facility managers and maintenance supervisors
- Municipal water supply professionals
- Industrial water treatment specialists

Targeted Organizational Departments:

- Operations & Maintenance pumping systems, RO operations, water treatment plant training
- Quality Control & Laboratories water quality testing training, potable water standards
- Engineering & Projects pumping station design, installation, and troubleshooting
- Health, Safety & Environment HSE safe water handling and compliance
- Infrastructure & Utilities distribution networks, water plant operations and maintenance

Targeted Industries:

- Municipal water authorities and utilities
- Industrial plants pharmaceuticals, food & beverage, power generation
- Oil, gas, and petrochemicals
- Construction and infrastructure companies
- NGOs and humanitarian organizations
- Academic and research institutions in environmental sciences

Course Offerings:

, participants will be able to:potable water treatment and RO systems training course By the end of this

- Conduct water quality testing for physical, chemical, and microbiological parameters.
- Design and operate potable water treatment plants in compliance with international standards.
- Apply best practices in pumping station design, operation, and troubleshooting.
- Install, operate, and maintain reverse osmosis systems, including pretreatment and post-treatment.
- Troubleshoot common failures in pumping systems and RO operations.
- Implement strategies for comprehensive water treatment training to ensure sustainability.
- Strengthen team spirit and address team-specific challenges with effective solutions.
- Develop strategies for continued practice and improvement after training.

Training Methodology:

that balances theory with real-world interactive and practical training approach The course is delivered through an application. Training methods include:

- from municipal and industrial plants to illustrate best practices. Case Studies
- pH, turbidity, hardness, microbial testing, chlorination. water quality testing in Hands-On Exercises
- .pumping station troubleshooting and RO installation focused on Group Workshops
- with expert trainers on design, operations, and maintenance challenges. Interactive Sessions
- simulating emergency breakdowns and contamination events. Role-Play Scenarios
- at the end of each day to consolidate learnings. Reflection & Review Sessions
- including digital simulations, visual aids, and group feedback loops. Modern facilitation techniques

Course Toolbox:

- Comprehensive course workbook
- Water quality testing checklists turbidity, pH, TDS, BOD, coliforms
- Templates for pumping station operation and maintenance logs
- Case study scenarios municipal and industrial examples
- Troubleshooting guides for pumps and RO membranes
- Digital simulations for pumping station hydraulics
- RO membrane maintenance and cleaning procedures
- Best-practice examples for water treatment and distribution operations



Course Agenda:

Day 1: Fundamentals of Water Quality & Testing

- Introduction to potable water standards and guidelines Topic 1:
- Parameters in water quality testing pH, turbidity, TDS, BOD, COD Topic 2:
- Microbial analysis coliforms, E. coli, protozoa, pathogens Topic 3:
- Sampling protocols and laboratory methods Topic 4:
- Field testing tools and rapid analysis methods Topic 5:
- Case study on water contamination incidents Reflection & Review:

Day 2: Potable Water Treatment Plant Processes

- Catchment to consumer □ overview of potable water treatment Topic 1:
- Coagulation, flocculation, and sedimentation Topic 2:
- Filtration technologies sand, carbon, advanced membrane filtration Topic 3:
- Disinfection methods chlorination, UV, ozone Topic 4:
- Water storage, reservoirs, and distribution systems Topic 5:
- Workshop on water treatment plant design challenges Reflection & Review:

Day 3: Pumping Stations □ Design, Operation & Troubleshooting

- Principles of pumping station design and operation Topic 1:
- Types of pumps and selection criteria for water systems Topic 2:
- Pumping system hydraulics, controls, and automation Topic 3:
- Common pump failures and troubleshooting techniques Topic 4:
- Energy efficiency and reliability in pumping operations Topic 5:
- Group exercise on troubleshooting case scenarios Reflection & Review:

Day 4: Reverse Osmosis Systems □ Installation & Operation

- Principles of reverse osmosis systems and applications Topic 1:
- Pretreatment requirements for RO filtration, pH adjustment, chlorine removal Topic 2:
- RO membranes □ types, design, and operational parameters Topic 3:
- RO system installation and maintenance procedures Topic 4:
- Post-treatment UV, degassing, remineralization and reuse options Topic 5:
- Troubleshooting workshop scaling, fouling, pressure issues Reflection & Review:

Day 5: Integration, Troubleshooting & Advanced Practices

- Linking potable water treatment and RO systems Topic 1:
- Integrated treatment and distribution models Topic 2:
- Troubleshooting combined treatment plant and pumping systems Topic 3:
- Emergency response planning for contamination and equipment failure Topic 4:
- Future trends in comprehensive water treatment automation, digital monitoring, IoT Topic 5:
- Capstone case study and group presentations Reflection & Review:

FAQ:

What specific qualifications or prerequisites are needed for participants before enrolling in the course?

This course is suitable for engineers, operators, and technicians with basic knowledge of water systems. Prior experience in mechanical, civil, or environmental engineering is helpful but not mandatory.

How long is each day's session, and is there a total number of hours required for the entire course?

five , with breaks and interactive activities. The total duration is 40-50 hours. Each day's session is structured to last 8-9 hours, approximately 20-25 hours of instruction.

How does troubleshooting differ between pumps and RO systems?

Pumps typically fail due to hydraulic, mechanical, or electrical issues, while RO troubleshooting focuses on water chemistry scaling, fouling, chlorine damage and membrane integrity. Both require systematic testing and preventive maintenance strategies.

How This Course is Different from Other Potable Water Treatment Courses:

Unlike conventional programs that focus on either water treatment or pumping systems in isolation, this course integrates water quality testing, potable water treatment processes, pumping station design and operation, and reverse osmosis system training into one cohesive program.

Participants benefit from comprehensive water treatment training supported by international standards, hands-on troubleshooting workshops, and exposure to both municipal and industrial case studies. The course emphasizes team-specific challenges and effective solutions, ensures strategies for continued practice and improvement after training, and uses modern facilitation techniques to maximize engagement.

This holistic approach ensures professionals are fully equipped to manage potable water treatment and RO systems in complex real-world environments, making it a standout program for advanced water treatment certification readiness.



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WHO WE ARE

Agile Leaders is a renowned training center with a team of experienced experts in vocational training and development. With 20 years of industry experience, we are committed to helping executives and managers replace traditional practices with more effective and agile approaches.

OUR VISION

We aspire to be the top choice training provider for organizations seeking to embrace agile business practices. As we progress towards our vision, our focus becomes increasingly customer-centric and agile.

OUR MISSION

We are dedicated to developing value-adding, customer-centric agile training courses that deliver a clear return on investment. Guided by our core agile values, we ensure our training is actionable and impactful.

WHAT DO WE OFFER

At Agile Leaders, we offer agile, bite-sized training courses that provide a real-life return on investment. Our courses focus on enhancing knowledge, improving skills, and changing attitudes. We achieve this through engaging and interactive training techniques, including Q&As, live discussions, games, and puzzles.



AGILE LEADERS
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