



WE053: Advanced Water Handling Operations Management

Training Description:

The operation, handling and management of water and wastewater treatment systems to safeguard against water-borne diseases and ensure a healthy environment in an efficient and sustainable manner are paramount in both public and private sector industries. The provision of potable water and the effective treatment of the municipal and industrial wastewater streams are growing fields in the environmental sector. This training in Advanced Water Handling Systems Operations and Management will provide you with:

- The opportunity to do real, hands-on manipulation of equipment and data collection, learning about water systems operation in our labs and wet-work facilities
- Faculty expertise to guide you in understanding government regulations on the treatment of water and wastewater in this highly regulated and changing industry
- The knowledge needed to pass the Ministry of Environment Licensing and Certification exams for Water and Wastewater Operators
- Project management skills, essential to your success in this field
- Critical thinking and troubleshooting skills required to respond to emergency or non-routine situations as an operator or supervisor in this challenging field
- Health and Safety knowledge and awareness training to assist graduates in a safe working career and progression into management roles
- The knowledge and practical expertise to assist and lead organizations and government agencies in the provision of drinking water and the treatment of wastewater

Training Objectives:

By the end of the training, participants will be able to:

- ✓ Explain what Asset Management is and how it can contribute to the realization of the corporate strategy of your organization
- ✓ Utilize a wide variety of instrumentation and standardized protocols for the collection and analysis of samples and data required in the operation of water and wastewater facilities
- ✓ Collaborate with individuals and groups in testing and troubleshooting equipment at various water treatment and distribution facilities and at wastewater collection and treatment facilities
- ✓ Evaluate system design and operations based on current legislation, regulations and standards affecting water and wastewater treatment plants, scope and authority of facility permits and owner/operator responsibilities
- ✓ Develop risk management strategies including emergency response and disaster preparedness for water and wastewater systems
- ✓ Test and monitor microbiological parameters in water and wastewater applications and propose remediation strategies to reduce/ eliminate contaminants
- ✓ Assess current, innovative and emerging technologies in such areas as water conservation, alternative supply (e.g. rainwater) and zero-discharge for the provision of potable water and wastewater treatment and their possible applications within the industry
- ✓ Assess the sustainability of current infrastructure in water operations, considering maintenance plans, addressing future needs, energy utilization improvements, population growth and financing of water services

- ✓ Manage projects in the maintenance, renewal, and replacement of utility infrastructure using project planning and project management tools

Training Designed for:

This course is intended for all professionals involved in water and wastewater handling system, operations and management, water services, senior and process engineers and technical professionals in water facilities.

Training Program:

FIVE DAYS:

- ❖ PRE-TEST
- ❖ Introduction
- ❖ Asset Management is and how it can contribute to the realization of the corporate strategy of your organization
- ❖ Instrumentation and standardized protocols for the collection and analysis of samples and data required in the operation of water and wastewater facilities
- ❖ Testing and troubleshooting equipment at various water treatment and distribution facilities and at wastewater collection and treatment facilities
- ❖ System design and operations based on current legislation, regulations and standards affecting water and wastewater treatment plants, scope and authority of facility permits and owner/operator responsibilities
- ❖ Risk management strategies including emergency response and disaster preparedness for water and wastewater systems
- ❖ Microbiological parameters in water and wastewater applications and propose remediation strategies to reduce/ eliminate contaminants
- ❖ Current, innovative and emerging technologies in such areas as water conservation, alternative supply (e.g. rainwater) and zero-discharge for the provision of potable water and wastewater treatment and their possible applications within the industry
- ❖ Sustainability of current infrastructure in water operations, considering maintenance plans, addressing future needs, energy utilization improvements, population growth and financing of water services
- ❖ Maintenance, renewal, and replacement of utility infrastructure using project planning and project management tools
- ❖ Course Conclusion
- ❖ POST-ASSESSMENT and EVALUATION

Training Requirement:

“Hand’s on practical sessions, equipment and software will be applied during the course if required and as per the client’s request.”

Contents can be adapted to your specific wishes. It is therefore possible to focus on specific modules of the training course as per client’s learning needs and objectives. Further, it should be forwarded to us a month prior to the course dates.

Training Methodology:

This interactive training course includes the following training methodologies as a percentage of the total tuition hours:-

- 30% Lectures, Concepts, Role Play
- 70% Workshops & Work Presentations, Techniques, Based on Case Studies & Practical Exercises, Gamification, Software & General Discussions
- Pre and Post Test

Training Certificate(s):

CMCT Internationally recognized certificate(s) will be issued to each participant who completed the course.

Training Fees:

TBA as per the course location - This rate includes participant's manual, hand-outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Note: The 5% VAT (Value Added Tax), will be effective starting 01st of January 2018 as per the new regulation from the UAE Government. The VAT applies for all quotation both for local and abroad.

Training Timings:

Daily Timings:

07:45 - 08:00	Morning Coffee / Tea
08:00 - 10:00	First Session
10:00 - 10:20	Recess (Coffee/Tea/Snacks)
10:20 - 12:20	Second Session
12:20 - 13:00	Recess (Prayer Break & Lunch)
13:00 - 14:00	Last Session

For training registrations or in-house enquiries, please contact:

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