



WE038: Domestic Wastewater Treatment Plants



Training Description:

This intensive course provides the skills and knowledge required to design, assess and install domestic wastewater treatment systems. Competencies include theoretical concepts, applying solutions to unpredictable problems, and assessing, selecting and designing on-site sewerage facilities for parcels of land not serviced by a local authority sewerage system.

This training provides a post trade outcome which has been designed for persons seeking employment as technicians in environmental plumbing, operative or general domestic waste water treatment systems.

Training Objectives:

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

- ✓ Learn that a wastewater treatment plant should be designed to achieve Federal, State and local effluent quality standards stipulated in applicable discharge permits. Specifically, the plant must be easy to operate and maintain, require few operating personnel, and need a minimum of energy to provide treatment. Plants should be capable of treating normal laundry wastes together with sanitary wastewater. Pretreatment of laundry wastes will not be considered except where such wastes might exceed 25 percent of the average daily wastewater flow, or as a resources conservation measure when feasible. In a design for the expansion of existing plants, criteria contained herein regarding flows and wastewater characteristics may be modified to conform to existing plant performance data if the plant has been in operation long enough to have established accurate data

Training Designed for:

This course prepares the participants in small decentralized Waste Water Management positions or planning for Environmental Plumbing Systems positions. It also provides some competencies suitable for employment in Hydraulics Services Design field of the Building Industry. Some of the competencies are required for Licensing for servicing of Waste Water Treatment Plants and the design of the Waste Water Treatment Facility.

On successful completion of this course and or some of its competencies, attendees will have the skills and knowledge to perform in the following job roles/functions such as Plumbing Inspectors, Installers of Wastewater Systems, Managers in Wastewater Industry, Small Business Owner domestic wastewater industry Consultants, Environmental plumbing industry, Licensed Plumbers wishing to add extra scope in the environmental and wastewater area to their skill set, Engineers involved in wastewater management, Soil classifiers involved in site assessment and design in wastewater management, Service and Maintain Domestic Waste Water Treatment Plants, Designers of Waste Water Treatment Facilities.

Training Program:

DAY ONE:

- ❖ PRE-TEST
- ❖ Introduction





- ❖ DMW001 Basic Principles of Wastewater Management
- ❖ DMW002 Servicing Domestic Wastewater Treatment Plants and On-Site Assessment and Design of Wastewater Land Application Areas
- ❖ Theoretical Concepts
- ❖ Applying solutions to unpredictable problems

DAY TWO:

- ❖ Assessing, selecting and designing on-site sewerage facilities for parcels of land not serviced by a local authority sewerage system
- ❖ GENERAL
- ❖ SITE SELECTION
- ❖ Treatment Requirements

DAY THREE:

- ❖ Basic Design Considerations
- ❖ Selection of Treatment Process
- ❖ Small Flow Treatment Systems
- ❖ Typical Military Wastewater Treatment Systems
- ❖ Upgrading Existing Treatment Facilities
- ❖ Characteristics of Wastewater Treatment Plants and General Plant Layout

DAY FOUR:

- ❖ Preliminary Treatment
- ❖ Trickling Rickling Filter Plants
- ❖ Activated Sludge Plants
- ❖ Waste Treatment Ponds
- ❖ Advanced Wastewater Treatment

DAY FIVE:

- ❖ Sludge Handling, Treatment and Disposal
- ❖ Disinfection
- ❖ Flow Measurement, Sampling and Process Control
- ❖ Operation, Maintenance, Design, And Safety
- ❖ Course Conclusion
- ❖ POST-TEST 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”.

Please note that the above topics can be amended 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, Software & General Discussions
- Pre and Post Test

Training Certificate(s):

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

Training Fees:

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 - 13:30	Recess (Prayer Break & Lunch)
13:30 - 15:00	Last Session

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

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Training & Career Development Department

