



SC092: Drainage Construction Practical Course

Training Description:

This intensive training course is designed to provide participants with a detailed and up-to-date overview of drainage networks. It covers the objective of construction project planning including the definition and terms of drains and sewers; the water distribution systems planning; the hydraulics of professional flows and water distribution/drainage systems; the pipeline design, construction and hydraulic design of pipeline systems; and the various types of pipes for underground drain construction, hydraulic design of pump systems and types of pumps.

During this interactive course, participants will learn the hydraulic design of water distribution storage tanks; the checklists for construction of urban stormwater and sewerage networks; the easy operation and maintenance; the reliability analysis of water distribution systems; and the maintenance and rehabilitation and effective total quality management system.

Training Objectives:

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

- ✓ Apply and gain an in-depth knowledge on drainage construction
- ✓ Discuss the objective of construction project planning including the definition and terms of drains and sewers
- ✓ Carryout water distribution systems planning and recognize hydraulics of professional flows and water distribution/drainage systems
- ✓ Illustrate pipeline design and construction and hydraulic design of pipeline systems
- ✓ Identify the various types of pipes for underground drain construction, hydraulic design of pump systems and types of pumps
- ✓ Describe hydraulic design of water distribution storage tanks and inspect checklists for construction of urban stormwater and sewerage networks
- ✓ Design for easy operation and maintenance as well as discuss reliability analysis of water distribution systems
- ✓ Employ maintenance and rehabilitation and effective total quality management system

Training Designed for:

This course is intended having all significant aspects and considerations of drainage networks for young Qatari Engineers.

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 Program:

DAY ONE:

- ❖ PRE-TEST
- ❖ Introduction
- ❖ Objectives of Construction Project Planning
- ❖ Drains & Sewers Terms Definitions
- ❖ Water Distribution Systems—Introduction & Planning
- ❖ Hydraulics of Pressurized Flow
- ❖ Hydraulics of Water Distribution / Drainage Systems
- ❖ Pipeline Design & Construction
- ❖ Hydraulic Design of Pipeline Systems
- ❖ Types of Pipes for Underground Drain Construction
- ❖ Recap

DAY TWO:

- ❖ Site Visit – Drainage Network Under Construction (Initial Stages)
- ❖ Recap

DAY THREE:

- ❖ Site Visit—Drainage Network Under Construction (Initial Stages) (cont'd)
- ❖ Site Visit—Drainage Network Under Construction (Final Stages) (cont'd)
- ❖ Recap

DAY FOUR:

- ❖ Site Visit—Drainage Network Under Construction (Final Stages) (cont'd)
- ❖ Recap

DAY FIVE:

- ❖ Hydraulic Design of Pump Systems
- ❖ Types of Pumps
- ❖ Hydraulic Design of Water Distribution Storage Tanks
- ❖ Inspection Checklists for Construction of Urban Storm water & Sewerage Networks
- ❖ Designing for Easy Operation & Maintenance
- ❖ Reliability Analysis of Water Distribution Systems
- ❖ Maintenance & Rehabilitation
- ❖ Effective Total Quality Management System
- ❖ Course Conclusion
- ❖ POST-TEST and EVALUATION

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 Certificate(s):

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

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 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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