



SC089: Drainage/Sewer Piping, Accessories Inspection & Training

Training Description:

This intensive training course covers the wastewater pipelines, sewer networks and its general requirements; the proper operation, maintenance and rehabilitation techniques; the health and safety issues and quality management for sewer pipelines and manholes; and performing observation and surveys, data collection, survey reporting, problem formulation, condition assessment reports and coding of information.

The course will also discuss the EN 13508 standard including the code evolution, scope and implementation benefits; the EN 13508-Part 1 and its general requirements, terms, definitions and performance requirements; the performance deficiencies, consequences analysis, information requirements, investigations and information quality assessments; and the EN 13508-Part 2 including its visual inspection coding system, purpose, methods, data collection and data transfer.

During this interactive course, participants will learn to identify drain and sewers covering codes, coding system, characterization, quantification, observations, photographic references, inventory codes, documentation and recommended codification system; employ systematic techniques on manhole inspection; apply documentation using electronic data collection, transfer and conversion, coding sheets and illustrated coding system; and identify character separated format, inspection data, extensible mark-up format, additional information, international standards and other guidelines.

Training Objectives:

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

- ✓ Apply and gain a comprehensive knowledge on drainage/sewer piping and accessories inspection
- ✓ Discuss wastewater pipelines and define sewer networks and list its general requirements
- ✓ Carryout proper operation, maintenance and rehabilitation techniques as well as identify health and safety issues and quality management for sewer pipelines and manholes
- ✓ Perform observation and surveys, data collection, survey reporting, problem formulation, condition assessment reports and coding of information
- ✓ Explain the EN 13508 standard including the code evolution, scope and implementation benefits as well as the EN 13508-Part 1 and its general requirements, terms, definitions and performance requirements
- ✓ Determine performance deficiencies, consequences analysis, information requirements, investigations and information quality assessments
- ✓ Recognize EN 13508-Part 2 including its visual inspection coding system, purpose, methods, data collection and data transfer
- ✓ Identify drain and sewers covering codes, coding system, characterization, quantification, observations, photographic references, inventory codes, documentation and recommended codification system
- ✓ Employ systematic techniques on manhole inspection and apply documentation using electronic data collection, transfer and conversion, coding sheets and illustrated coding system
- ✓ Identify character separated format, inspection data, extensible mark-up format, additional information, international standards and other guidelines

Training Designed for:

This course is intended for supervisors, operators, crew members of sewer, manhole inspectors and for those who are involved in drainage networks operation and maintenance department.

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
- ❖ Wastewater Pipelines
 - Sewers Networks Definitions, Information, General Requirements
- ❖ Operation, Maintenance & Rehabilitation Techniques, Health & Safety Issues, Quality Management
 - Observation & Surveys Data Collection, Survey Reporting & Problem Formulation
- ❖ Condition Assessment Reports & Coding of Information
- ❖ Recap

DAY TWO:

- ❖ The EN 13508 Standard
 - Introduction, Code Evolution, Scope, Implementation Benefits
- ❖ EN 13508 Part 1 - General Requirements
 - Terms & Definitions, Performance Requirements
- ❖ Performance Deficiencies & Consequences Analysis
- ❖ Information Requirements, Investigations, Information Quality Assessments
- ❖ Recap

DAY THREE:

- ❖ EN 13508 Part 2 - Visual Inspection Coding System
 - Purpose, Methods, Data Collection, Data Transfer
- ❖ Drains and Sewers
 - Codes, Coding System, Characterization & Quantification
 - Observations, Photographic References, Videos, Inventory Codes & Case Studies
 - Documentation & Recommended Codification System
- ❖ Recap

DAY FOUR:

- ❖ Manholes and Inspection Chambers
 - Terms, Definitions, Descriptions
 - Codes, Coding System, Characterization, Quantification

- Observations, Photographic References, Videos, Inventory Codes, Case Studies
- Documentation & Recommended Codification System

❖ Recap

DAY FIVE:

❖ Documentation Example

- Electronic Data Collection, Transfer & Conversion, Coding Sheets, Illustrated Coding System

❖ Character Separated Format & Inspection Data

❖ Extensible Mark-up Format & Examples

❖ Additional Information, International Standards & other Guidelines

❖ Course Conclusion

❖ POST-TEST and EVALUATION

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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