An Intensive 5-Day Seminar On

Construction and Civil Engineering Fundamentals for Non-Civil Engineers

16 - 20 Jun 2019, Dubai
22 - 26 Sep 2019, Muscat

EuroMaTech is proud to be associated with the following accreditation bodies:

The PMI Registered Education Provider logo is a registered mark of the Project Management Institute, Inc.
INTRODUCTION

Civil Engineering deals with the design and construction of the artefacts of civil use. This EuroMaTech training course is designed for non-civil engineers aspiring to work in construction and civil engineering industry. The Construction and Civil Engineering Fundamentals for Non-Civil Engineers training course will help non-civil engineers to develop a career in the professional side of the civil or construction industry by providing technical, organisational and problem solving skills in line with industry standards. They will be able to determine the economic feasibility of a project and make cost estimates for materials and equipment to be used in the entire project.

Participants will develop the following competencies:

- Familiarity with general terminology and standards used in Civil and Construction Engineering Industry
- Understanding of sustainability and environmental precautions as applied to Civil Engineering
- Ability to put in place measures to Quantify Progress and Condition of Projects
- Appreciation of Planning, Scheduling and Resources Control Techniques
- Identification and decisions on Cost Analysis for Civil Engineers

WHO SHOULD ATTEND?

- Professionals and Leaders who wish to learn more about Construction and Civil Engineering Projects
- Engineers and Technicians associated and / or wish to establish careers in Construction and Civil Engineering Organisations
- Personnel moving into Construction and Civil Engineering roles including Leadership, Technical and Project Management Roles
- Building Control Surveyors, Consulting Engineers, Geologists and Infrastructure Project Engineers

PROGRAMME OBJECTIVES

- Familiarise with different types of Projects in Construction and Civil Engineering
- Understand the Principles of Construction and Project Management Techniques
- Understand Advanced Monitoring and Measurement Technologies
- Appreciate Sustainable and Environmental Consequences of Civil Engineering and Construction Projects

TRAINING METHODOLOGY

The EuroMaTech training course will be conducted along workshop principles with formal lectures, case studies and interactive worked examples. Relevant case studies will be provided to illustrate the application of each tool in an operations environment. Each learning point will be re-enforced with practical exercises. There will be ample opportunities for discussion and sharing experiences.

PROGRAMME SUMMARY

Technical knowledge is a key to effective control and peer respect within any civil engineering and construction organisation; when this is achieved personal satisfaction follows. This Construction and Civil Engineering Fundamentals for Non-Civil Engineers training course will give delegates the required level of technical knowledge and skill to achieve that personal satisfaction. Optimum project management, planning and resources control techniques, in addition to environmental issues, are vital to the success of construction and civil engineering organisations. On completion of this EuroMaTech training course delegates will be able to critically analyse the methodologies employed within the organisation and instigate improvements where required.
PROGRAMME OUTLINE

**DAY 01**  
CONSTRUCTION AND CIVIL ENGINEERING FUNDAMENTALS
- Main elements in Construction and Civil Engineering Business
- Health, Safety and Welfare in Construction and the Built Environment
- Sustainable Construction Related Issues
- Planning Organization for Construction and Civil Engineers
- Control of Resources in Civil Engineering Projects
- Case Study

**DAY 02**  
MATERIALS SCIENCE AND KEY PROPERTIES
- Materials in construction and the built environment
- Identification of the most important materials
- Materials key properties
- Techniques used to prevent deterioration
- Construction technology and design in Construction and Civil Engineering
- Case study

**DAY 03**  
CONSTRUCTION PROJECTS AND SURVEYING STRATEGIES
- Requirements of construction related projects
- Implications of changes and variations in the design
- Infrastructure projects: new roads, railways, airports and water projects
- Layout of drawings, the choice of scale and proportion
- Types of views used
- The use of correct line widths, conventional graphic symbols
- The appropriate use of annotation
- Surveying in construction and civil engineering
- Surveying tasks and techniques
- Case study

**DAY 04**  
STRUCTURAL MECHANICS AND ANALYSIS
- Structural Mechanics in Construction and Civil Engineering
- Forces created in the building framework and the structural elements
- Safely design within simple structural units
- Computer-aided drafting and design for construction
- How CAD is used to produce drawings
- Softwares to produce 2D drawings and 3D models
- Case study

**DAY 05**  
CALCULATIONS AND STANDARDS IN CONSTRUCTION
- Statistical data analysis for beams and columns
- Complex linear/angular/area and volume measurements
- Trigonometrical identities, rates of change and decay, numerical integration
- Data presentation and interpretation
- Over view of codes used in construction
- Case study
- Course review and closure

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**In-House Training**

EuroMaTech is capable of conducting this training programme exclusively for your delegates. Please e-mail us on inhouse@euromatech.ae for further information and/or to receive a comprehensive proposal.
Construction and Civil Engineering Fundamentals for Non-Civil Engineers

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<thead>
<tr>
<th>DATE</th>
<th>VENUE</th>
<th>FEE ($)</th>
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<tbody>
<tr>
<td>16 - 20 Jun 2019</td>
<td>Dubai</td>
<td>US$4,950</td>
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</tbody>
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This fee is inclusive of instruction materials, documentation, lunch, coffee/tea breaks & snack. All fees are subject to 5% Value Added Tax (VAT) *

YOUR DETAILS

Name (Mr/Ms): ..........................................................................................................................................................................................................................
Position: Organisation: ..........................................................................................................................................................................................................
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METHOD OF PAYMENT

☐ Please find enclosed a cheque made payable to EuroMaTech
☐ Please invoice me
☐ Please invoice my company as follows:

Contact Name: ........................................................................................................................................................................................................................
Company Name: ....................................................................................................................................................................................................................
Address: ..........................................................................................................................................................................................................................

SEMINAR DETAILS

Documentation
High Quality material has been prepared by the Seminar Leader for distribution to delegates. In addition a special note pad to facilitate note taking will be provided.

Certificates
A Certificate of Completion will be issued to those who attend & successfully complete the programme.

Schedule
07:30 – 08:30 Welcome
08:30 – 10:15 First Session
10:15 - 10:30 Coffee Break
10:30 – 12:15 Second Session
12:15 – 12:30 Coffee Break
12:30 – 14:00 Third Session
14:00 – 15:00 Lunch
15:00 – 16:00 Open Session

Hotel Accommodation
EuroMaTech has negotiated special rates for a limited number of rooms in the hotel. Early registration will help to secure a room at the reduced rate.

Registration & Payment
Please complete the registration form on this page & return it to us together with your cheque made payable to EuroMaTech.

For Further Information, Contact Your Nearest EuroMaTech Office:

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EASY WAYS TO REGISTER

Telephone: +971 4 4571800 to provisionally reserve your place.
Fax your completed registration form to: +971 4 4571801
E-mail to us: info@euromatech.ae
Complete & return the booking form with cheque to EuroMaTech P.O.Box 74693, Dubai - U.A.E.

Cancellation Policy

Request for seminar cancellation must be made in writing & received at EuroMaTech three weeks prior to the seminar date. A U.S.$250/ processing fee will be charged per delegate for each cancellation. Thereafter, we regret that we are unable to refund any fees due, although in such cases we would be happy to welcome a colleague who would substitute for you.

Disclaimer

EuroMaTech reserves the right to alter the content, location of the Seminar, or the identity of the speakers in case of events beyond our control.

*VAT Announcement: The Government of UAE have introduced Value Added Tax (VAT) on goods and services from 01-January-2018. In compliance with the legislation issued by the UAE Government, we will be applying a 5% VAT on the fees for all our programs and services offered from January 2018 as applicable and stipulated in the FTA circulars.