COURSE OVERVIEW SE0205
Demolition & Construction Knowledge

Course Title
Demolition & Construction Knowledge



Course Date/Venue
November 23-27, 2026/Al Nakheel Meeting Room, Royal Rose Hotel Abu Dhabi, a Curio Collection by Hilton Affiliated Hotel, Abu Dhabi, UAE

Course Reference
SE0205

Course Duration/Credits
Five days/3.0 CEUs/30 PDHs

Course Description







This practical and highly-interactive course includes real-life case studies where participants will be engaged in a series of interactive small groups and class workshops.

This course is designed to provide participants with a detailed and up-to-date overview of Demolition and Construction Knowledge. It covers the types of construction projects, project lifecycle and roles and responsibilities on site; the demolition works, construction materials basics and site preparation and surveying; the health, safety and environmental (HSE) fundamentals, construction equipment and demolition planning and assessment; the manual demolition methods, mechanical demolition methods and controlled demolition techniques; the waste management and recycling; and the safety in demolition operations and foundation construction.

During this interactive course, participants will learn the structural systems, concrete technology and masonry and finishing works; the construction scheduling, quality control in construction and construction project management basics; the coordination between trades, risk management in construction and contracts and legal aspects; the site logistics and planning, sustainability in construction and integration of demolition and construction; and the modern construction technologies, safety leadership and culture, inspection and handover.

Course Objectives/Outcomes & Benefits for the Participants

Upon the successful completion of this course, each participant will be able to:-

- Apply and gain an in-depth knowledge on demolition and construction
- Discuss the types of construction projects, project lifecycle and roles and responsibilities on site
- Recognize demolition works, construction materials basics and site preparation and surveying
- Explain health, safety and environmental (HSE) fundamentals, construction equipment and demolition planning and assessment
- Apply the manual demolition methods, mechanical demolition methods and controlled demolition techniques
- Carryout waste management and recycling, safety in demolition operations and foundation construction
- Identify structural systems, concrete technology and masonry and finishing works
- Apply construction scheduling, quality control in construction and construction project management basics
- Carryout coordination between trades, risk management in construction and contracts and legal aspects
- Apply site logistics and planning, sustainability in construction and integration of demolition and construction
- Discuss modern construction technologies and implement safety leadership and culture including inspection and handover

Exclusive Smart Training Kit - H-STK®



*Participants of this course will receive the exclusive "Haward Smart Training Kit" (**H-STK®**). The **H-STK®** consists of a comprehensive set of technical content which includes **electronic version** of the course materials conveniently saved in a **Tablet PC**.*

Who Should Attend

This course provides an overview of all significant aspects and considerations of demolition and construction Knowledge for project managers, site engineers / civil engineers, construction supervisors / foremen, demolition contractors & operators, health & safety officers (HSE/QHSE) and quantity surveyors / estimators.

Course Fee

US$ 5,500 per Delegate + **VAT**. This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Course Certificate(s)

Internationally recognized certificates will be issued to all participants of the course who completed a minimum of 80% of the total tuition hours

Certificate Accreditations

Haward's certificates are accredited by the following international accreditation organizations:

- British Accreditation Council (BAC)

  Haward Technology is accredited by the **British Accreditation Council** for **Independent Further and Higher Education** as an **International Centre**. Haward's certificates are internationally recognized and accredited by the British Accreditation Council (BAC). BAC is the British accrediting body responsible for setting standards within independent further and higher education sector in the UK and overseas. As a BAC-accredited international centre, Haward Technology meets all of the international higher education criteria and standards set by BAC.

- The International Accreditors for Continuing Education and Training (IACET - USA)

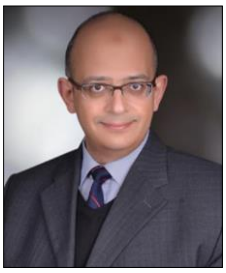
  Haward Technology is an Authorized Training Provider by the International Accreditors for Continuing Education and Training (IACET), 2201 Cooperative Way, Suite 600, Herndon, VA 20171, USA. In obtaining this authority, Haward Technology has demonstrated that it complies with the **ANSI/IACET 2018-1 Standard** which is widely recognized as the standard of good practice internationally. As a result of our Authorized Provider membership status, Haward Technology is authorized to offer IACET CEUs for its programs that qualify under the **ANSI/IACET 2018-1 Standard**.

  Haward Technology's courses meet the professional certification and continuing education requirements for participants seeking **Continuing Education Units** (CEUs) in accordance with the rules & regulations of the International Accreditors for Continuing Education & Training (IACET). IACET is an international authority that evaluates programs according to strict, research-based criteria and guidelines. The CEU is an internationally accepted uniform unit of measurement in qualified courses of continuing education.

  Haward Technology Middle East will award **3.0 CEUs** (Continuing Education Units) or **30 PDHs** (Professional Development Hours) for participants who completed the total tuition hours of this program. One CEU is equivalent to ten Professional Development Hours (PDHs) or ten contact hours of the participation in and completion of Haward Technology programs. A permanent record of a participant's involvement and awarding of CEU will be maintained by Haward Technology. Haward Technology will provide a copy of the participant's CEU and PDH Transcript of Records upon request.

Course Instructor(s)

This course will be conducted by the following instructor(s). However, we have the right to change the course instructor(s) prior to the course date and inform participants accordingly:



Dr. Mostafa Eloyfi, PhD, MSc, BSc, Dip, NEBOSH, is a **Senior Project & Construction Management Consultant** with over **25 years** of extensive experience within the **Oil & Gas**, **Petroleum** and **Utility** industries. His expertise widely covers in the areas of **Construction Materials & Concrete** Technology, **Civil & Construction** Engineering, **Material** Testing & Quality Control, Modern & Sustainable **Construction Materials**, **Site Preparation & Construction** Methods, **Reinforced Concrete** Construction, **Structural Steel** Construction, **Masonry & Building Envelope** Construction, **Construction** Equipment & Productivity, **Construction Quality** Management, **Construction** Safety Practices, **Building** Codes & Standards, **Construction** Planning & Scheduling, **Prefabrication & Modular** Construction, **Sustainable Construction** Practices, Repair, Rehabilitation & Retrofitting, **Project** Management, **Project** Planning & Scheduling, **Project** Economics, Risk & Decision Analysis, **Asset Integrity** Management for Oil & Gas Industry, Planning & Cost Management of **Engineering Projects**, **Excavation** Techniques, **Contract** Preparation & Management, **Procurement** Skills and **Occupational Health & Safety**.

During his career life, Dr. Mostafa has gained his practical and field experience through his various significant positions and dedication as the Chief Executive Officer (**CEO**), **Business & Project Development Director**, **Projects Manager**, **Project Construction Manager**, **Deputy Construction Manager**, **Site Civil Supervisor**, **HSE Engineer**, **Senior Project Planning**, **Scheduling & Controlling Engineer**, **Project Planning**, **Scheduling & Controlling Engineer** and **Senior Instructor/Trainer** for numerous companies like the **GUPCO**, **BP**, Consolidated Contractors International Company (**CCIC**), Burullus Gas Company, Pharaonic Petroleum Company (PhPC), Petroleum Integrated Services (PICO), North Sinai Petroleum Company (NOSPCO), **MOG Energy**, Premier Petroleum Supplier (PPS), ARWIMCO LLC, Zaporozhe Cement Factory, Technical Integrity Solutions (TIS) and Misr Cement Group.

Dr. Mostafa holds a **Doctor** of **Business Administration** (**DBA**), a **Master's** degree and a **Bachelor's** degree in **Civil Engineering**, a **Master's** of **International Business Administration** in **Global Marketing**, a **Master's** of **Management** in **Global Management** and **Diploma** in Law, Project Management, Occupational Health & Safety & Environmental Control (HSE), Hazard Analysis and Sales & Marketing. He is also a Recognized **NEBOSH** – International General Certificate and a Certified Planning & Scheduling Professional (**PSP**) and a member of Egyptian Engineering Syndicate, Institution of Civil Engineers (ICE), Engineering New Zealand, Arab Engineers and Egyptian Society for Corrosion Engineers. He has further published several journals and papers and delivered numerous courses, seminars, trainings and workshops internationally.

Training Methodology

Our courses employ an interactive, learner-centred methodology that integrates theoretical knowledge with practical application. The training is delivered through a suitable combination of some or all of the following methods, selected according to the course content and learning objectives:

- Instructor-led presentations and facilitated discussions
- Practical workshops and participant presentations
- Hands-on exercises and real-world case studies
- Equipment demonstrations and technical drawings
- Hardware- and software-based simulations
- Gamification & Role Play in soft-skills courses only
- Virtual Reality (VR) and Augmented Reality (AR)
- Instructional videos and other relevant training resources

This blended approach encourages active participation, strengthens practical skills and supports the effective application of acquired knowledge in the workplace.

Learning Design & Customization

This course can be customized to the exact requirements of clients. Haward Technology is so proud of our huge capabilities in tailoring our courses to the training needs of our valued clients.

Accommodation

Accommodation is not included in the course fees. However, any accommodation required can be arranged at the time of booking.

Course Program

The following program is planned for this course. However, the course instructor(s) may modify this program before or during the workshop for technical reasons with no prior notice to participants. Nevertheless, the course objectives will always be met:

Day 1: ***Monday, 23rd of November 2026***

0730 – 0800	*Registration & Coffee*
0800 – 0815	*Welcome & Introduction*
0815 – 0830	***PRE-TEST***
0830 – 0930	***Introduction to Construction Industry*** *Types of Construction Projects (Residential, Commercial, Infrastructure) • Key Stakeholders (Owners, Contractors, Consultants) • Project Lifecycle Overview • Roles and Responsibilities on Site*
0930 – 0945	*Break*
0945 – 1030	***Basics of Demolition Works*** *Definition and Purpose of Demolition • Types of Demolition (Manual, Mechanical, Controlled) • When Demolition is Required • Regulatory Considerations*
1030 – 1130	***Construction Materials Basics*** *Concrete, Steel, Wood, Masonry • Properties and Uses of Materials • Material Selection Criteria • Storage and Handling Practices*
1130 – 1215	***Site Preparation & Surveying*** *Site Clearing and Grading • Basic Surveying Techniques • Setting Out Works • Soil Investigation Basics*

1215 – 1230	*Break*
1230 – 1330	***Health, Safety & Environmental (HSE) Fundamentals*** *Construction Site Hazards • Personal Protective Equipment (PPE) • Safety Regulations and Standards • Environmental Protection Measures*
1330 – 1420	***Construction Equipment Overview*** *Earthmoving Equipment (Excavators, Bulldozers) • Lifting Equipment (Cranes) • Demolition Tools and Machinery • Equipment Selection and Maintenance*
1420 – 1430	***Recap*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow*
1430	*Lunch & End of Day One*

Day 2: Tuesday, 24th of November 2026

0730 – 0830	***Demolition Planning & Assessment*** *Structural Assessment Before Demolition • Risk Identification • Method Statements • Permits and Approvals*
0830 – 0930	***Manual Demolition Methods*** *Hand Tools and Techniques • Sequence of Dismantling • Safety Precautions • Applications and Limitations*
0930 – 0945	*Break*
0945 – 1100	***Mechanical Demolition Methods*** *Use of Heavy Machinery • High-Reach Excavators • Hydraulic Breakers and Crushers • Efficiency and Safety Considerations*
1100 – 1215	***Controlled Demolition Techniques*** *Implosion Basics • Use of Explosives (Conceptual Overview) • Precision Demolition • Safety Zones and Planning*
1215 – 1230	*Break*
1230 – 1330	***Waste Management & Recycling*** *Types of Demolition Waste • Segregation and Disposal • Recycling Materials (Steel, Concrete) • Environmental Regulations*
1330 – 1420	***Safety in Demolition Operations*** *Hazard Identification • Dust, Noise, and Vibration Control • Fall Protection • Emergency Response Procedures*
1420 – 1430	***Recap*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow*
1430	*Lunch & End of Day Two*

Day 3: Wednesday, 25th of November 2026

0730 – 0830	***Foundation Construction*** *Types of Foundations (Shallow, Deep) • Excavation and Footing Works • Reinforcement Placement • Concrete Pouring and Curing*
0830 – 0930	***Structural Systems*** *Load-Bearing Structures • Frame Structures (Steel, Reinforced Concrete) • Precast Systems • Structural Integrity Basics*
0930 – 0945	*Break*
0945 – 1100	***Concrete Technology*** *Mix Design Basics • Batching and Mixing • Placement and Compaction • Curing Methods*

1100 – 1215	***Masonry & Finishing Works*** *Brick and Block Work • Plastering and Rendering • Flooring Systems • Painting and Finishing*
1215 – 1230	*Break*
1230 – 1330	***Construction Scheduling*** *Work Breakdown Structure (WBS) • Gantt Charts Basics • Sequencing Construction Activities • Managing Delays*
1330 – 1420	***Quality Control in Construction*** *Inspection and Testing • Material Quality Checks • Workmanship Standards • Documentation and Reporting*
1420 – 1430	***Recap*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow*
1430	*Lunch & End of Day Three*

Day 4: ***Thursday, 26th of November 2026***

0730 – 0830	***Construction Project Management Basics*** *Planning, Execution, Monitoring • Resource Management • Cost Control • Project Documentation*
0830 – 0930	***Coordination Between Trades*** *Electrical, Mechanical, Civil Coordination • Clash Detection Basics • Communication Among Teams • Scheduling Dependencies*
0930 – 0945	*Break*
0945 – 1100	***Risk Management in Construction*** *Identifying Risks • Risk Assessment Methods • Mitigation Strategies • Contingency Planning*
1100 – 1215	***Contracts & Legal Aspects*** *Types of Construction Contracts • Roles and Obligations • Claims and Disputes • Regulatory Compliance*
1215 – 1230	*Break*
1230 – 1330	***Site Logistics & Planning*** *Material Delivery and Storage • Site Layout Planning • Traffic Management • Equipment Positioning*
1330 – 1420	***Sustainability in Construction*** *Green Building Practices • Energy-Efficient Materials • Waste Reduction Strategies • Environmental Impact Management*
1420 – 1430	***Recap*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow*
1430	*Lunch & End of Day Four*

Day 5: ***Friday, 27th of November 2026***

0730 – 0830	***Integration of Demolition & Construction*** *Site Redevelopment Strategies • Transition from Demolition to Construction • Planning Phased Projects • Managing Timelines Effectively*
0830 – 0930	***Modern Construction Technologies*** *Building Information Modeling (BIM) • Prefabrication and Modular Construction • Automation and Robotics • Digital Project Management Tools*

0930 – 0945	*Break*
0945 – 1100	***Safety Leadership & Culture*** *Promoting Safety Awareness • Training and Supervision • Incident Reporting and Analysis • Continuous Improvement*
1100 – 1215	***Inspection & Handover*** *Final Inspections • Snagging and Defect Management • Documentation for Handover • Client Acceptance Procedures*
1215 – 1230	*Break*
1230 – 1315	***Case Studies in Demolition & Construction*** *Real-World Project Examples • Challenges and Solutions • Lessons Learned • Best Practices*
1315 - 1345	***Capstone Project & Evaluation*** *Developing a Basic Demolition + Construction Plan • Identifying Risks and Resources • Presenting Project Approach • Feedback and Assessment*
1345 – 1400	***Course Conclusion*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Course Topics that were Covered During the Course*
1400 – 1415	***POST-TEST***
1415 – 1430	*Presentation of Course Certificates*
1430	*Lunch & End of Course*

Practical Sessions

This practical and highly-interactive course includes real-life case studies and exercises:-



Course Coordinator

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