

AMERICAN GLOBAL INSTITUTE
FOR PRIVATE TRAINING



External Training Course

Construction Supervision Skills

From 01 Dec. To 05 Dec. 2024

From 12 Jan. To 16 Jan. 2025

From 09 Feb. To 13 Feb. 2025

**Carlton Downtown Hotel
Dubai, UAE**

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External Training Course:

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Fess: 1500 KD

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Introduction:

The significance and applicability of effective and realistic techniques required to attain proficiency for professionals involved in construction plans will be covered in this training course on reading construction plans and specifications. The final stage of a project's lifetime, which includes procurement, construction, advanced design, preliminary design, and feasibility, is construction planning. The construction and execution of any building require a contract form, such as direct execution, and many steps must be completed after the construction paperwork were completed for projects to be delivered successfully. The application for a building permit is the first step in the construction process. After that, all plans and details are sent to the building department, where they are examined to make sure they comply with local building codes and zoning laws. Once this is done, a permit to begin construction is issued. In addition to the necessary technical understanding, inspection teams also need to grasp the administrative and application skills. Ensuring the success of a project depends on the effective management and supervision of construction sites, while also minimizing risks. If it is not properly handled and controlled, there could be a significant risk and subsequent damage. This online course provides an introduction to useful techniques for managing project time and expenses. Furthermore, the rates of achievement and the amount of money spent at any point during the project can be used to forecast the project's eventual cost and duration. This Construction Supervision Skills training course will feature:

- Gain experience with construction project management techniques
- Manage complex and challenging changes, claims, and disputes
- Recognize critical issues affecting project and site performance
- Meet deadlines and multitask at the site
- Apply innovative construction site supervision techniques to achieve project success.

Objectives:

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

- Help control work quality, progress, and cost at the construction site; cultivate positive working relationships.
- Handle modifications, claims, and dispute resolution.
- Assess and regulate work techniques, resources, and systems to satisfy site work needs.
- A solid understanding of how building construction is carried out.
- Gaining more expertise in the building construction process.
- Recognizing issues with reading building drawings and knowing how to address them.
- Acquiring knowledge of cost control and progress payment administration.
- Conducting project meetings and overseeing team and individual performance.

Training Methodology:

This Civil & Construction Engineering training course will utilise a variety of proven adult learning techniques to ensure maximum understanding, comprehension and retention of the information presented. The daily workshops will be highly interactive and participative. Videos and photos will be used for illustration.

Course Points & Outline:

DAY 1: Introduction to Planning

- Kick-off Meeting.
- Master Schedule (Baseline): Bar chart, Network logic, Line-of-Balance.
- Critical Scheduling instruments, tools and techniques.
- Communicating and updating schedules.
- Information gathering and feeding back.
- Scheduling and resourcing issues, challenges and way forward.

DAY 2: Assigning The cost to the Plan

- Managing anticipated and unanticipated risk at site.
- Factors impacting progress and performance KPIs.
- Tracking and evaluating Time, Cost and Quality.
- Site compliance and corrective action.
- Project cash flow and progress payment.

DAY 3: Process of Construction

- Types of buildings.
- Building construction development.
- Earthworks and soil investigation.
- Understanding soil investigation and challenges of soil mechanics.
- Precaution during construction foundations.
- Workshop of soil reports.
- Bearing Capacity.

DAY 4: Specification of Concrete and Quality Control

- Component of concrete.
- Storing concrete materials.
- Mix of concrete.
- Fresh tests of concrete.
- Curing of concrete.
- Types of foundations.
- Types of piles.

DAY 5: Maintenance of Construction

- The language of concrete cracks.
- Advanced method of repairing cracks.
- Types of maintenance.
- Negotiation Strategies to manage multiple Claims and Disputes.
- Complex Changes, Claims and Disputes management.



COURSE AGENDA:

(1st Day) Agenda

8.30	9.00	Opening Remarks (30 Min.).
9.00	11.30	<u>DISCUSS COURSE OBJECTIVES:</u> <ul style="list-style-type: none"> • Introduction to Planning. • Assigning The cost to the Plan. • Process of Construction. • Specification of Concrete and Quality Control. • Maintenance of Construction.
11.30	12.00	Coffee Break
12.00	14.00	<u>Introduction to Planning:</u> <ul style="list-style-type: none"> • Kick-off Meeting. • Master Schedule (Baseline): Bar chart, Network logic, Line-of-Balance. • Critical Scheduling instruments, tools and techniques. • Communicating and updating schedules. • Information gathering and feeding back. • Scheduling and resourcing issues, challenges and way forward.
14.00	14.30	Questions and Discussion
14.30		Buffet Lunch

(2nd Day) Agenda

9.00	11.30	<u>Assigning The cost to the Plan:</u> <ul style="list-style-type: none"> • Managing anticipated and unanticipated risk at site. • Factors impacting progress and performance KPIs. • Tracking and evaluating Time, Cost and Quality.
11.30	12.00	Coffee Break
12.00	14.00	<u>Assigning The cost to the Plan:</u> <ul style="list-style-type: none"> • Site compliance and corrective action. • Project cash flow and progress payment.
14.00	14.30	Questions and Discussion
14.30		Buffet Lunch

(3rd Day) Agenda

9.00	11.30	<u>Process of Construction:</u> <ul style="list-style-type: none"> • Types of buildings. • Building construction development. • Earthworks and soil investigation.
11.30	12.00	Coffee Break
12.00	14.00	<u>Process of Construction:</u> <ul style="list-style-type: none"> • Understanding soil investigation and challenges of soil mechanics. • Precaution during construction foundations. • Workshop of soil reports. • Bearing Capacity.
14.00	14.30	Questions and Discussion
14.30		Buffet Lunch

(4th Day) Agenda

9.00	11.30	<u>Specification of Concrete and Quality Control:</u> <ul style="list-style-type: none"> • Component of concrete. • Storing concrete materials. • Mix of concrete. • Fresh tests of concrete.
11.30	12.00	Coffee Break
12.00	14.00	<u>Specification of Concrete and Quality Control:</u> <ul style="list-style-type: none"> • Curing of concrete. • Types of foundations. • Types of piles.
14.00	14.30	Questions and Discussion
14.30		Buffet Lunch

(5th Day) Agenda

9.00	11.30	<u>Maintenance of Construction:</u> <ul style="list-style-type: none"> • The language of concrete cracks. • Advanced method of repairing cracks. • Types of maintenance.
11.30	12.00	Coffee Break
12.00	14.00	<u>Maintenance of Construction:</u> <ul style="list-style-type: none"> • Negotiation Strategies to manage multiple Claims and Disputes. • Complex Changes, Claims and Disputes management.
14.00	14.30	Questions, Discussion & Conclusion Training Course.
14.30		Buffet Lunch