

€ TRAINING

Construction Education



7 - 11 July 2024
Istanbul (Turkey)
Sheraton Istanbul Levent



Construction Education

REF: M2456 DATE: 7 - 11 July 2024 Venue: Istanbul (Turkey) - Sheraton Istanbul Levent Fee: 5300 Euro

Introduction:

The construction industry is constantly evolving, demanding professionals with diverse skills and knowledge. This comprehensive Construction Education Program provides a strong foundation for individuals seeking to enter the industry or enhance their existing qualifications. Whether you're a novice or a seasoned professional, this program will equip you with the essential tools and insights to navigate the complex world of construction.

Program Objectives:

At the end of this program, participants will be able to:

- Gain a thorough understanding of the construction industry's key sectors and processes.
- Master essential construction safety principles and regulations.
- Develop proficiency in construction plans and document reading.
- Acquire practical skills for construction project management and budgeting.
- Identify and explore various career paths and opportunities within the construction industry.

Targeted Audience:

- Individuals new to the construction industry.
- Construction workers seeking career advancement.
- Tradespeople looking to expand their skillset.
- Project management and supervision aspirants.

Program Outline:

Unit 1:

Introduction to Construction Fundamentals:

- Construction Industry Overview: Major sectors, project types, stakeholders, and career paths.
- Construction Safety: Hazard identification, risk assessment, safety regulations, and best practices.
- Construction Materials and Methods: Common materials, their properties, and typical construction methods.

- Construction Drawings and Specifications: Plans, elevations, sections, details, and interpreting specifications.
- Construction Equipment and Tools: Types of equipment, their applications, and safe operation practices.

Unit 2:

Project Planning and Management:

- Project Lifecycle: Pre-construction, construction, and post-construction phases.
- Project Scheduling and Planning Techniques: Gantt charts, critical path method CPM, and resource allocation.
- Construction Estimating and Budgeting: Cost calculations, material estimates, and bid preparation.
- Construction Contracts and Legal Aspects: Types of contracts, key clauses, and risk management.
- Construction Communication and Collaboration: Effective communication strategies with stakeholders.

Unit 3:

Building Systems and Trades:

- Structural Systems: Foundations, framing, load-bearing walls, and structural integrity.
- Mechanical, Electrical, and Plumbing MEP Systems: Basic understanding of HVAC, electrical wiring, and plumbing systems.
- Interior Finishes and Building Envelope: Roofing, windows, doors, finishes, and their installation.
- Sustainable Construction Practices: Energy-efficient materials, green building methods, and environmentally responsible construction.
- Building Codes and Regulations: Local and national building codes and compliance requirements.

Unit 4:

Construction Site Operations and Management:

- Site Management and Quality Control: Site layout, logistics, material management, and quality assurance.
- Construction Workforce Management: Subcontractors, labor relations, safety training, and workforce diversity.
- Construction Project Documentation: Progress reports, change orders, inspections, and permit records.
- Construction Technology and Innovations: Drones, BIM, 3D printing, and their impact on the industry.

- Ethical Considerations in Construction: Sustainability, social responsibility, and ethical sourcing practices.

Unit 5:

Career Development and Industry Insights:

- Identifying Career Paths and Opportunities: Exploring various specialties and positions within the construction industry.
- Resume Writing and Interview Skills: Building a strong resume and mastering interview techniques.
- Industry Associations and Resources: Participating in professional organizations and utilizing industry resources.
- Networking and Mentorship: Building professional connections and finding mentors.
- The Future of Construction: Emerging trends, technological advancements, and industry changes.