



Modern Maintenance of the Building

16 - 20 Feb 2025
Cairo (Egypt)



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Ref.: 15576_315557 **Date:** 16 - 20 Feb 2025 **Location:** Cairo (Egypt) **Fees:** 3500 **Euro**

Introduction:

The Modern Maintenance of the Building course will equip participants with the essential skills and knowledge required for the effective and efficient upkeep of contemporary structures. This comprehensive program addresses various aspects of building maintenance, integrating the latest technological advancements, sustainable practices, and regulatory requirements.

This course targets facility management, building operations, and maintenance professionals, including building managers, maintenance supervisors, facility engineers, and technical staff. Participants will gain in-depth insights into the principles of modern building maintenance, covering critical areas such as preventive maintenance, energy efficiency, safety protocols, and the use of advanced diagnostic tools.

The curriculum also includes practical training on implementing computerized maintenance management systems CMMS, smart building technologies, and green building standards. Additionally, the course emphasizes the importance of regular inspections, troubleshooting techniques, and the adoption of innovative solutions to address common maintenance challenges.

Through theoretical knowledge and hands-on experience, participants will learn how to develop and execute comprehensive maintenance plans that ensure building systems' longevity and optimal performance. Topics include HVAC maintenance, electrical systems upkeep, plumbing, structural repairs, and landscape management. The course also covers the latest trends in building materials and construction methods that impact maintenance strategies.

By the end of the program, participants will be proficient in proactively identifying and addressing maintenance issues, minimizing downtime, and enhancing the overall sustainability and efficiency of the buildings they manage. This course is invaluable for those seeking to advance their careers in the building maintenance industry and contribute to creating safer, more resilient, and environmentally friendly built environments.

Targeted Groups:

- Building Managers.
- Maintenance Supervisors.
- Facility Engineers.
- Technical Staff.
- Facility Management Professionals.
- HVAC Technicians.
- Electrical Maintenance Personnel.
- Plumbing Maintenance Workers.
- Structural Repair Technicians.
- Landscape Management Teams.
- Sustainability Coordinators.
- Smart Building Technology Specialists.

Course Objectives:

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

- Understand the principles of modern building maintenance.
- Implement preventive maintenance strategies.
- Enhance energy efficiency in building operations.
- Apply safety protocols in maintenance activities.
- Utilize advanced diagnostic tools for maintenance.
- Operate computerized maintenance management systems CMMS.
- Integrate smart building technologies.
- Adhere to green building standards.
- Conduct regular building inspections.
- Develop comprehensive maintenance plans.
- Troubleshoot common maintenance issues.
- Implement innovative maintenance solutions.
- Maintain HVAC systems efficiently.
- Ensure electrical systems are operational.
- Perform effective plumbing maintenance.
- Conduct structural repairs.
- Manage landscape maintenance.
- Stay updated on building materials and methods.

Targeted Competencies:

- Preventive Maintenance Planning.
- Energy Efficiency Optimization.
- Safety Management in Maintenance.
- Diagnostic Tool Proficiency.
- CMMS Operation.
- Smart Building Technology Integration.
- Green Building Standards Compliance.
- Building Inspection Techniques.
- Maintenance Plan Development.
- Troubleshooting Skills.
- Innovative Maintenance Solution Implementation.
- HVAC System Maintenance.
- Electrical System Maintenance.
- Plumbing System Maintenance.
- Structural Repair Execution.
- Landscape Maintenance Management.
- Knowledge of Modern Building Materials.
- Understanding of Construction Methods.

Course Content:

Unit 1: Fundamentals of Modern Building Maintenance:

- Introduction to modern maintenance principles.
- Importance of preventive maintenance.
- Overview of maintenance management systems.
- Key regulatory requirements and standards.
- Role of technology in building maintenance.
- Benefits of a structured maintenance approach.
- Historical evolution of building maintenance practices.
- Impact of maintenance on building lifespan.
- Maintenance cost management and budgeting.
- Communication and coordination in maintenance teams.

Unit 2: Energy Efficiency and Sustainability:

- Strategies for improving energy efficiency.
- Implementation of green building practices.
- Use of sustainable materials and methods.
- Monitoring and reducing energy consumption.
- Case studies of sustainable maintenance practices.
- Energy auditing and benchmarking.
- Renewable energy integration in buildings.
- Life Cycle assessment of building components.
- Water conservation techniques in maintenance.
- Environmental impact of maintenance activities.

Unit 3: Advanced Diagnostic and Maintenance Tools:

- Types of diagnostic tools and their applications.
- Utilization of computerized maintenance management systems CMMS.
- Integration of smart building technologies.
- Techniques for effective condition monitoring.
- Data analysis for predictive maintenance.
- Real-time monitoring and IoT applications.
- Automated maintenance scheduling.
- Benefits of remote monitoring and diagnostics.
- Calibration and maintenance of diagnostic tools.
- Software solutions for maintenance management.

Unit 4: Safety Protocols and Risk Management:

- Essential safety standards and regulations.
- Risk assessment and management strategies.
- Emergency preparedness and response planning.
- Training and compliance for maintenance staff.
- Incident reporting and investigation procedures.
- Personal protective equipment PPE usage.
- Safety audits and inspections.
- Hazard identification and control measures.
- Ergonomics in maintenance work.
- Fire safety and prevention in building maintenance.

Unit 5: Specialized Maintenance Areas:

- HVAC system maintenance and optimization.
- Electrical system upkeep and troubleshooting.
- Plumbing system maintenance techniques.
- Structural integrity inspections and repairs.
- Landscape and exterior maintenance best practices.
- Roof maintenance and leak prevention.
- Elevator and escalator maintenance.
- Indoor air quality management.
- Pest control and prevention in buildings.
- Seasonal maintenance tasks and schedules.



**Registration form on the :
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