



Building and Facilities Maintenance Management Training

5 – 9 April 2027
Rome (Italy)



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Introduction:

In facility management building maintenance, the imperative of preserving infrastructure is well-acknowledged. Ensuring the optimal operation of these facilities is crucial for the uninterrupted provision of various services. The omission of maintenance can lead to a progressive deterioration of buildings, potentially resulting in substantial financial costs, legal issues, and complications in industrial relations, which can obstruct service provision.

Consequently, diligent building maintenance management is fundamental to proficiently managing physical assets and capital stewardship, which is essential for fulfilling organizational objectives and institutional goals. At the heart of facilities maintenance management is identifying structural problems and understanding building compositions alongside their mechanical and electrical systems. Many issues, such as fungal growth or subpar mortar work, can give rise to maintenance challenges.

Participants in this building and facilities maintenance management training will develop an understanding of prevailing building defects, empowering them to establish a solid facilities maintenance management system. Such a system will not only aid in organizing the planning, execution, and monitoring of maintenance affairs but will also promote a uniform *modus operandi*.

Targeted Groups:

- Facility managers and supervisors are in charge of facility management and building maintenance.
- Maintenance team leaders who aim to refine facilities management maintenance strategies.
- Property managers oversee building maintenance management activities.
- Engineers and architects incorporate maintenance considerations into designs.
- Contractors and service providers offering building maintenance management solutions.
- Experts are seeking to expand their knowledge in sustainable facilities maintenance management.
- Building owners and operators are looking for efficient facility management maintenance methods.
- Individuals are responsible for formulating a structured approach to building maintenance management.
- Practitioners are aiming to bolster their expertise in facilities maintenance management.

Course Objective:

By the conclusion of this building and facilities maintenance management course, participants will:

- Understand the principles of defect and maintenance management in facilities maintenance management.
- Tackle-reinforced concrete structures are an issue in facility management and building maintenance.
- Survey the effects of moisture on structural materials and elements.
- Inspect typical troubles in roofing, plumbing, and sanitary systems.
- Acquire knowledge about the mechanical and electrical systems critical to facility maintenance management.
- Clarify the notions of defects liability, product warranty, and the duties of managing defects.
- Identify the functions and accountabilities of maintenance supervisors in building maintenance management.
- Recognize the prevalent building imperfections and their repercussions.
- Develop a principal framework for building maintenance management definition.
- Enact protocols for reporting and monitoring building services to guarantee efficiency and regulatory adherence.

Targeted Competencies:

After this building and facilities maintenance management training, participants' competencies will:

- Identify and diagnose building deficiencies.
- Executive preemptive maintenance strategies for facilities maintenance management.
- Handle problems in reinforced concrete structures.
- Knowledge in managing moisture within building materials.
- Combat challenges in roofing, sanitary, and plumbing systems.
- Understand mechanical and electrical systems in facility maintenance management.
- Grasp concepts related to defects liability and warranty in building maintenance management.
- Craft maintenance frameworks and protocols for facilities management maintenance.
- Supervisory skills for overseeing building maintenance management activities and teams.
- Establish reporting and monitoring systems for building services.

Course Content:

Unit 1: Introduction to Building and Facilities Maintenance Management:

- Overview of building maintenance principles and objectives.
- Importance of proactive maintenance strategies.
- Understand the role of maintenance in preserving building integrity.
- Introduction to common building defects and their implications.
- Explore the financial and legal aspects of building maintenance.
- Defects and maintenance management.
- Problems associated with reinforced concrete structures.
- Understand the issues with building materials caused by moisture and water.
- Problems related to defects from the roofing system.
- Issues with the sanitary and plumbing systems.

Unit 2: Building Defects Identification and Diagnosis:

- Techniques for identifying structural and non-structural defects.
- Understand the causes and consequences of common building defects.
- Practical exercises in defect recognition and diagnosis.
- Utilize inspection tools and technologies for accurate assessment.
- Case studies highlighting successful defect identification and resolution.
- Identify the common building defects problem.
- Techniques for defect identification and diagnosis.
- Understand defects liability and product warranty.
- Develop the basic framework for defects and maintenance management.

Unit 3: Preventive Maintenance Strategies:

- Develop preventive maintenance schedules and protocols.
- Implement predictive maintenance techniques to anticipate issues.
- Utilize maintenance management software for scheduling and tracking.
- Incorporate risk assessment into preventive maintenance planning.
- Evaluate the cost-effectiveness of preventive maintenance measures.
- Duties of defects management and roles and responsibilities of maintenance supervisors.
- Develop preventive maintenance strategies.
- Safety maintenance.
- Water drainage and piping management.

Unit 4: Repair and Restoration Techniques:

- Explore repair options for various building materials and components.
- Understand the principles of structural reinforcement and restoration.
- Hands-on training in repair techniques for concrete, masonry, and metal structures.
- Strategies for addressing moisture and water damage in buildings.
- Incorporate sustainability considerations into repair and restoration projects.
- Repair and restoration techniques.
- Mechanical and electrical systems associated with building facilities.

Unit 5: Maintenance Management and Reporting Systems

- Establish a comprehensive maintenance management framework.
- Define roles and responsibilities within the maintenance team.
- Develop standardized reporting formats for maintenance activities.
- Implement a system for tracking maintenance expenditures and outcomes.
- Conduct regular audits and inspections to ensure compliance and effectiveness.
- Develop a system for reporting and monitoring building services.
- Establish maintenance management and reporting systems.