BLACKBIRD FOR TRAINING

Building Services Management and Maintenance

15 – 19 February 2027
Barcelona (Spain)



Building Services Management and Maintenance

Ref: 3255546_200788 **Date:** 15 – 19 February 2027 **Location:** Barcelona (Spain) **Fees:** 5200 GBP

Introduction

The Building Services Management and Maintenance course provides a comprehensive and practical understanding of how building services systems are managed, operated, and maintained across residential, commercial, and institutional facilities. Effective management of building services is essential to ensure safety, operational efficiency, system reliability, regulatory compliance, and long-term sustainability.

This course is designed for professionals involved in facilities management, engineering, maintenance, and operations who are responsible for overseeing mechanical, electrical, plumbing, fire protection, and vertical transportation systems. Participants will gain structured knowledge of building services systems, maintenance strategies, asset management, and best practices that support uninterrupted building operations and optimal performance throughout the asset lifecycle.

Course Objectives

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

- Understand the principles, functions, and components of building services systems.
- Manage mechanical, electrical, and plumbing systems effectively within buildings.
- Apply preventive and corrective maintenance strategies to improve system reliability.
- Enhance operational efficiency and reduce unplanned downtime.
- Ensure compliance with safety standards, codes, and regulatory requirements.
- Implement structured maintenance management and asset management practices.

Course Outlines

The course is delivered over five training days, with each day focusing on a core aspect of building services management and maintenance.

Day One: Fundamentals of Building Services

- Overview of building services and their role in facility and property operations.
- Introduction to mechanical, electrical, and plumbing systems in buildings.
- Core principles of building services design and integration.
- Applicable codes, standards, and regulatory requirements.
- Introduction to maintenance management concepts and strategies.



Day Two: Heating, Ventilation, and Air Conditioning Systems Management

- Key components and functions of heating, ventilation, and air conditioning systems.
- System operation, performance monitoring, and efficiency indicators.
- Energy efficiency and optimization techniques in HVAC systems.
- Common faults, failures, and troubleshooting concepts.
- Preventive maintenance planning and scheduling for HVAC systems.

Day Three: Electrical and Lighting Systems Management

- Electrical distribution systems and power supply within buildings.
- Lighting systems, controls, and energy-efficient technologies.
- Power quality, electrical safety, and protection systems.
- Inspection, testing, and compliance requirements.
- Maintenance planning and documentation for electrical systems.

Day Four: Plumbing, Fire Protection, and Vertical Transportation Systems

- Water supply, drainage, and sanitation systems.
- Fire detection, alarm, and firefighting systems.
- Pumps, valves, and associated control systems.
- Elevators and escalators: operational principles and safety requirements.
- Maintenance coordination, contractor interface, and safety considerations.

Day Five: Building Services Maintenance Management

- Maintenance policies, procedures, and asset management frameworks.
- Preventive versus corrective maintenance approaches.
- Maintenance documentation, reporting, and performance tracking.
- Contractor management and service-level agreements.
- Sustainability, lifecycle costing, and continuous improvement in building services.

Why Attend This Course: Wins & Losses!

- Gain a structured understanding of building services systems and maintenance practices.
- Improve the reliability, safety, and efficiency of building operations.
- Strengthen preventive maintenance planning and asset management skills.
- Enhance compliance with safety standards and regulatory requirements.
- Reduce operational risks, downtime, and maintenance costs.
- Apply best practices across residential, commercial, and institutional buildings.



Conclusion

The Building Services Management and Maintenance course delivers a comprehensive and practical framework for managing and maintaining essential building services systems. Over one week, participants develop the knowledge and skills required to oversee mechanical, electrical, plumbing, fire protection, and vertical transportation systems effectively.

By integrating maintenance management strategies, asset management principles, regulatory compliance, and sustainability considerations, this course enables professionals to improve operational performance, extend system lifecycles, and support safe, efficient, and reliable building environments.

