SMART BUILDINGS, FACILITIES TECHNOLOGY & DIGITAL FACILITY MANAGEMENT COURSE

Introduction

The Smart Buildings, Facilities Technology & Digital Facility Management Course is a future-focused professional programme designed to equip facilities managers, property professionals, engineers, technology specialists, operations managers and workplace leaders with the knowledge and practical skills required to understand and leverage digital technologies to improve the management, performance and experience of modern facilities. The programme examines how smart buildings, automation, Internet of Things (IoT), Building Management Systems (BMS), Computerized Maintenance Management Systems (CMMS), sensors, artificial intelligence, data analytics and integrated digital platforms are transforming traditional facilities management. Participants explore how technology can support more efficient facility operations, asset management, maintenance, energy management, security, space utilization, workplace services and decision-making. The course demonstrates how real-time information and connected systems can provide greater visibility of facility performance, identify emerging problems and support proactive rather than reactive management. Particular attention is given to predictive maintenance, automated building controls, smart energy monitoring, occupancy analytics, digital inspections, asset information management, workplace technology and integrated security systems. Participants also examine how facility data can be converted into meaningful performance insights through dashboards, KPIs and analytics. The programme considers the strategic aspects of digital transformation, including technology selection, implementation planning, investment considerations, system integration, data quality, user adoption, cybersecurity awareness and change management. Participants will learn how to evaluate technology solutions based on organizational needs rather than adopting technology simply because it is available.

Course Objectives

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Location Thika & Nairobi

- Understand smart-building concepts.
- Identify relevant facility technologies.
- Understand IoT applications in facilities.
- Use facility data for decision-making.
- Improve predictive maintenance.
- Understand building management systems.
- Improve energy monitoring.
- Support digital transformation.
- Develop smart-facility strategies.
- Evaluate technology investments.

Course Modules

> Module 1: Smart Facilities Management
- Smart-building concepts
- Digital transformation
- Connected facilities
- Smart facility strategies

> Module 2: Building Management Systems
- BMS principles
- Building controls
- System integration
- Automated monitoring

> Module 3: Internet of Things in Facilities
- IoT principles
- Facility sensors
- Connected equipment
- IoT applications

> Module 4: Digital Asset Management
- Digital asset registers
- Asset information
- Digital documentation
- Asset data

> Module 5: Predictive Maintenance
- Predictive maintenance
- Equipment monitoring
- Failure prediction
- Maintenance analytics

> Module 6: Energy Technology
- Smart meters
- Energy monitoring
- Automated controls
- Energy analytics

> Module 7: Workplace Technology
- Occupancy technology
- Smart workspaces
- Digital booking systems
- Workplace analytics

> Module 8: Security Technology
- Digital access control
- CCTV analytics
- Smart security
- Integrated security systems

> Module 9: Facilities Data and Analytics
- Facility data
- Dashboards
- KPIs
- Data-driven decisions

> Module 10: Digital Facility Transformation
- Digital maturity
- Technology investment
- Implementation strategies
- Future facility technologies

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