

ADVANCED BUILDING MANAGEMENT TECHNIQUES



GENTEX[®]
TRAINING CENTER



Introduction

In today's competitive commercial landscape, ensuring efficient and sustainable building operations is critical. This intensive five-day program, offered by Gentex Training Center, equips participants with advanced knowledge and practical skills to optimize building performance. Through a comprehensive exploration of energy management strategies, preventative maintenance practices, and emerging technologies, participants gain the ability to reduce operating costs, enhance occupant comfort, and extend the lifespan of building systems.

Advanced Building Management Techniques Course Objectives:

- Master advanced principles of building energy management for improved efficiency and cost savings.
- Utilize energy management tools and technologies to monitor, analyze, and optimize building energy consumption.
- Develop and implement preventative maintenance plans to minimize downtime, maximize equipment lifespan, and reduce repair costs.
- Employ strategies for optimizing indoor air quality and thermal comfort for a healthy and productive building environment.
- Understand and apply building codes and regulations related to energy efficiency and sustainability.
- Explore emerging building management technologies (e.g., Building Automation Systems, Internet of Things) and their potential to enhance building performance.
- Develop effective communication strategies to collaborate with tenants, occupants, and maintenance crews.
- Analyze real-world case studies of successful implementation of advanced building management techniques.

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- Formulate a personalized action plan to optimize building performance within your organization.

Course Methodology

This interactive program utilizes a participant-centric approach. It blends lectures from experienced building management professionals, real-world case studies, group discussions, and practical exercises. Participants actively engage in energy audit simulations, preventative maintenance plan development workshops, technology demonstrations, and scenario-based role-playing activities. Through experiential learning, participants gain the practical skills and theoretical knowledge needed to become effective building stewards, contributing significantly to a more sustainable and cost-effective built environment.

Who Should Take This Course

- Building managers, property managers, and facility supervisors seeking to enhance their building management skillset.
- Maintenance technicians and engineers interested in preventative maintenance best practices.
- Sustainability professionals and energy auditors aiming to optimize building energy efficiency.
- Building owners and real estate professionals seeking to improve building performance and marketability.
- Anyone aspiring to become a well-rounded building management professional with a focus on efficiency and sustainability.





Advanced Building Management Techniques Course Outline:

Day 1: Building Energy Efficiency: Mastering the Fundamentals

- Exploring Core Principles of Building Energy Management for Improved Efficiency and Cost Savings
- Utilizing Energy Audits to Identify Opportunities for Optimization
- Implementing Energy-Saving Strategies for Lighting, HVAC Systems, and Building Envelope

Day 2: Preventative Maintenance: A Proactive Approach

- Developing Effective Preventative Maintenance Plans for Building Systems and Equipment
- Utilizing Maintenance Management Software and Tools to Track Schedules and Work Orders
- Implementing Predictive Maintenance Techniques to Anticipate and Prevent Equipment Failures

Day 3: Optimizing the Indoor Environment: Comfort and Sustainability

- Understanding Indoor Air Quality (IAQ) and its Impact on Occupant Health and Productivity

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- Employing Strategies to Control Temperature, Humidity, and Ventilation for Thermal Comfort
- Implementing Sustainable Practices for Building Cleaning and Maintenance Operations

Day 4: Building Codes and Regulations: Navigating the Landscape

- Understanding Key Building Codes and Regulations Related to Energy Efficiency and Sustainability
- Implementing Strategies to Ensure Code Compliance During Building Operations and Maintenance
- Exploring Green Building Rating Systems (e.g., LEED) and their Benefits for Building Performance

Day 5: Building for the Future: Technology and Collaboration

- Exploring Emerging Building Management Technologies (BAS, IoT) and their Role in Optimization
- Utilizing Data Analytics and Building Information Modeling (BIM) for Enhanced Decision-Making
- Developing Communication Strategies for Effective Collaboration with Tenants, Occupants, and Maintenance Crews





Conclusion

By successfully completing this comprehensive program offered by Gentex Training Center, participants gain the knowledge and practical skills needed to become proficient and forward-thinking building management professionals. They will be equipped to optimize building systems, minimize environmental impact, and ensure the long-term value and sustainability of the built environment. This enhanced knowledge empowers them to make informed decisions, implement cost-saving measures, and contribute to a more sustainable future for buildings.

FAQs

Q1 What is the Advanced Building Management Techniques course about?

The Advanced Building Management Techniques course focuses on optimizing building performance through energy management, preventive and predictive maintenance, indoor environmental control, regulatory compliance, and emerging technologies. It also covers data analytics, BIM, BAS, IoT, and communication strategies to support efficient, sustainable, and cost-effective building operations.

Q2 What are the key benefits of the Advanced Building Management Techniques course?

The course helps participants improve building energy efficiency, reduce operating and repair costs, minimize equipment downtime, and extend system lifespans. It also supports better indoor air quality and thermal comfort while developing practical approaches to sustainability, technology integration, regulatory compliance, and effective building performance management.



Q3 What skills will I gain from the Advanced Building Management Techniques course?

Participants will develop Building Energy Management, Preventive Maintenance Planning, Indoor Environmental Optimization, and Building Technology Integration skills. These capabilities support efficient energy use, proactive maintenance, improved indoor conditions, and effective application of technologies such as Building Automation Systems, IoT, data analytics, and BIM.

Q4 What tools, methods, or standards are covered in the Advanced Building Management Techniques course?

The course covers energy audits, preventive and predictive maintenance, maintenance management software, Building Automation Systems (BAS), Internet of Things (IoT), Building Information Modeling (BIM), data analytics, building codes, and the LEED green building rating system. It also addresses energy-saving strategies for lighting, HVAC, and building envelopes.

Q5 How is the Advanced Building Management Techniques course applied in real-world practice?

The course applies building management concepts through energy audit simulations, preventive maintenance planning, technology demonstrations, and scenario-based activities. Participants work with practical approaches for optimizing HVAC and lighting, managing maintenance schedules, improving indoor conditions, supporting code compliance, and using technology to enhance building performance.