

FACILITY MANAGEMENT CERTIFICATE PROGRAM OVERVIEW OF CONTENT

The FM Certificate Program consists of ten (10) certificates. This document provides more details about the certificates and specific topics that are covered in each, including the assignments and books.

Each certificate was created to allow participants to both learn the material via instructional videos, targeted and relevant reading material that was specifically selected for each topic, and use what was learned on hands-on projects/assignments.

Most of our participants are currently working in the FM field and use the projects at work. This immediate use of the concepts/teachings allows the participant to better understand/learn. The projects also serve as an immediate return on investment for their company and career. We have had participants make huge organizational contributions and it is not uncommon for our participants to move their careers forward during this course. The estimated time to complete the full **FM Certificate Program is 12-18 months.**



Certificates Available:

Course	Title	CEUs	LUs	AIA HSW	Suggested Prerequisite
OM100	Operations & Maintenance	5	45	–	None
PM100	Facilities Project Management	5	45	–	OM100
RE100	Real Estate & Property Management	5	30	–	OM100
BEM100	Building Energy Management	5	52	–	OM100
QP100	Quality & Process Improvement	4	40	–	OM100
FB100	Finance & Business	4	25	–	OM100
LS200	Leadership & Strategy	3	32	–	OM100
EP200	Emergency Preparedness	3	22	22	OM100
TF200	Technology in Facility Management	4	28	–	OM100
ORG200	Organizational Change Certificates	3	30	–	OM100
RI200	Roofing Inspections	Coming Soon			
PF200	Procurement Fundamentals	Coming Soon			

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Operations & Maintenance Certificate

Course code: OM100

Suggested prerequisite: None

Approximate duration: 6-11 weeks

5 CEUs, 45 LUs

Overview

Building operations and maintenance (O&M) is a broad, diverse, and technically challenging aspect of facility management (FM). It takes a career to become an expert. This certificate will help you to develop a working knowledge to key systems, elements, and technology that will give you a 30,000-foot level view of a facility operation. You will gain exposure to tools that can help you increase efficiency, save money, and add value to a facility's operations and maintenance program. From this exposure, you will be able to ask good questions, evaluate alternatives, and make critical decisions.

Topics:

- History of Maintenance
- Program Organizational Structure
- Program Operations
- Operations and Maintenance Plans
- Preventive & Predictive Maintenance
- Indoor Air Quality
- Technical Improvement Plans
- Equipment, Systems and Maintenance Operations

- Electrical Equipment & Systems
- Outsourcing Consideration
- Landscaping and Grounds
- Conveyance Systems
- Water Treatment
- Capital Planning
- Utilities Infrastructure Electrical Equipment & Systems
- Outsourcing Consideration
- Landscaping and Grounds
- Conveyance Systems
- Water Treatment
- Capital Planning
- Utilities Infrastructure

Units:

1. Organizing for Maintenance Operations
2. Facility Operations & Maintenance
3. Equipment & Systems Operations
4. Other Maintenance Considerations & Capital Investment

Readings: Facility Manager's Operation & Maintenance Handbook

Assignments:

- Units 1-4 Certificate Checkpoints
- Building Assessment Report (project)

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Leadership & Strategy Certificate

Course code: LS200

Suggested prerequisite: OM100

Approximate duration: 4-8 weeks

3 CEUs, 32 LUs

Overview

Facility management professionals combine knowledge of innovative technologies and business management practices to lead a wide variety of projects and personnel. The goal of this certificate is to enable participants to become responsible leaders through organization, leadership, and current/innovative management techniques. As part of this certificate, you will get to know more about yourself as a leader by taking personality assessments and developing your core leadership philosophy through reading materials and reflections.

Topics:

- Leadership versus Management
- Increase your strengths
- Personality Assessment
- Develop strategic thinking skills for possible outcomes
- Leadership influence verses alignment
- Core values for effective leadership
- Building teams with diverse skill sets
- Empowering for maximum productivity
- Motivational techniques

Units:

1. Leadership & Strategy (part 1)
2. Leadership & Strategy (part 2)

Readings: The DNA of Leadership by William Badger and pick a your own leadership book

Assignments:

- Individual Core Values Worksheet
- Personality Assessment
- Leadership Books Wisdom Overview

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Facilities Project Management Certificate

Course code: PM100

Suggested prerequisite: OM100

Approximate duration: 4-12 weeks

5 CEUs, 45 LUs

Overview

Project Management concepts and principles form the foundation of common Facility Manager (FM) responsibilities and tasks. The course will cover development of project scope, schedules, budgets and communication plans from a FM's perspective. The assignments are geared toward development of a "Project Manager Handbook," which will be a useful resource and reference guide for best practices and templates/tools.

Topics:

Project Management techniques and applications

- AIA standards
- Scope of Work
- Cost estimates
- Project Schedules
- Construction Document Forms
- Request for Proposals (RFPs)
- Life Cycle Cost Analysis

Units:

1. Organizing for Maintenance Operations
2. Facility Operations & Maintenance
3. Equipment & Systems Operations

Readings: Supplemental Reading Handout (compilation of relevant articles from a variety of sources)

Assignments:

- Comprehensive Checklist
- Work Authorization (WA) Form
- RFP (Request for Proposal) Bid Form
- Construction Documents
- Life cycle Analysis Cost
- Project Manager's Handbook (collection of corrected previous assignments)

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Emergency Preparedness Certificate

Course code: EP200

Suggested prerequisite: OM100

Approximate duration: 4-8 weeks

3 CEUs, 22 LUs, 22 AIA HSWs

Overview

This course will provide you with an understanding of the key roles and responsibilities of Emergency Preparedness and Emergency Management Planning.

Topics:

- Planning, management and support of an Emergency Preparedness Program/Plan
- Development of Emergency Management Plan
- Impacts of upon the Business
- Risks & Security Threats
- Technology Systems & Services

Units:

1. Emergency Preparedness
2. Emergency Preparedness & Emergency Management Plan

Readings: Supplemental Reading Handout (compilation of relevant articles from a variety of sources)

Assignment: Emergency Management Plan Report

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Real Estate & Property Management Certificate

Course code: RE100

Suggested prerequisite: OM100

Approximate duration: 4-11 weeks

5 CEUs, 30 LUs

Overview

Facility managers are expected to manage/oversee real estate both as an asset and as an effective environment designed to support the people who use them. Therefore, facility managers need to understand real estate principles and practices so they can contribute to decisions as they relate to the use of real estate; compare alternative real estate proposals; understand acquisition impacts to support systems, building systems, vendor relations and personnel; interpret real estate documents, agreements, and investment recommendations.

Readings: Supplemental Reading

Handout(compilation of relevant articles from a variety of sources)

Assignments:

- Master Plan Analysis
- Scenario Development
- Executive Level Report

Topics:

- The Real Estate Lifecycle
- Evaluating Real Estate Condition
- Property Acquisition, Leasing and Disposition
- Real Estate Planning & Space Utilization
- Measuring Real Estate Performance
- Property Management
- Space Planning

Units:

1. The Building Portfolio
2. The Real Estate Life Cycle
3. Property Management
4. Real Estate Planning

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Building Energy Management Certificate

Course code: BEM100

Suggested prerequisite: OM100

Approximate duration: 6-14 weeks

5 CEUs, 52 LUs

Overview

Facility management professionals understand that energy consumption is an important aspect and financial constraint that reflects on overall performance. The goal of this class is to enable participants to understand energy management techniques in Facilities Management, such as identifying and performing efficiency evaluations on various heating, ventilation and air conditioning systems, and methods of adjusting equipment/systems for maximum performance. Participants will also understand techniques to maximize energy savings and performance.

Topics:

- Energy Management Systems
- Energy Star
- Energy Calculations
- Electrical O&M for an Industrial Site
- Managing Site Electrical Power
- Energy Efficiency Programs
- Commissioning & Retro-Commissioning
- Energy Auditing
- Elements of a Presentation for the "C's"
- Summary of Energy Management

Units:

1. Introduction to Energy Management
Energy Metric & Management Tools
2. Energy Efficiency Measures
3. Implementation

Readings: Energy Management Handbook, 7th or 8th Edition, Steve Doty and Wayne C. Turner

ISBN-10: 142008870X

ISBN-10: 1466578289

Assignments:

- Assess Your Building's Energy Performance
- Create and Complete an Energy Audit Checklist
- Executive Summary Report

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Quality & Process Improvement Certificate

Course code: QP100

Suggested prerequisite: OM100

Approximate duration: 4-8 weeks

4 CEUs, 40 LUs

Overview

This certificate will expose you to professionals in a variety of industries to understand process improvement, tools, methods, and techniques. It teaches an executive's perspective and how to deliver reports that are of practical use to a variety of stakeholders. This course not only intends to increase your technical knowledge of advanced concepts, but also will strive to assist you in taking a proactive leadership role in identifying value and improving the current "status quo."

Topics:

- Strategic Thinking
- Identification, prioritization, and minimization of risk.
- Process Management
- Measuring value continuously
- Managing change
- Aligning resources
- Using best practices
- Maximizing Value & Best Value
- Processes for Accountability
- Performance Metrics

Units:

1. Introduction to Quality Improvement
2. Process Management & Communication
3. Risk & Change Management
4. Quality, Accountability & Performance

Readings: Supplemental Reading Handout (compilation of relevant articles from a variety of sources)

Assignments:

- Identify a Process Improvement Tool to Apply on a Project
- Implementation and Testing of Process Improvement
- Case Study Write Up

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Finance & Business Certificate

Course code: FB100

Suggested prerequisite: OM100

Approximate duration: 4-11 weeks

4 CEUs, 25 LUs

Overview

The financial side of facility management (FM) is a subject that is critical to the core FM function. This certificate will help you gain an overall understanding of how finance and business relate to FM. Common terminology, documentation, and procedures for best practices in budgeting, cost analysis and development of business cases are discussed. In this Certificate, you will create Financial Performance Indicators for your organization that are crucial to helping communicate the value and impact of decisions around assets, maintenance, and other key FM areas.

Topics:

- Facility Management and Business
- Business Skills for Facility Managers
- Business Planning for Facility Management
- Financial Concepts for Facility Management
- Annual Budgeting
- Capital Budgeting
- Cost Containment
- Cost Justification
- Cost Analysis Tools

Units:

1. Facility Management in the Context of Business
2. Business Planning for Facility Management
3. Basic Financial Concepts for Facility Management
4. Budgeting and Cost Analysis

Readings: The Facility Manager's Guide to Finance & Budgeting By: David Cotts and Edmund P. Rondeau
ISBN 0814401597

Assignments:

- Identification of Financial Performance Indicators
- Application of Financial Performance Indicators

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Technology in Facility Management Certificate

Course code: TF200

Suggested prerequisite: OM100

Approximate duration: 4-8 weeks

4 CEUs, 28 LUs

Overview

Technology can often be an area of great need and opportunity for organizations, while at the same time being external to the field of FM. This certificate will expose you to case studies of other successful FM technology endeavors in a variety of organizations, so you can learn from best practices. The successful FM is able to monitor and evaluate technology trends and innovation in order to leverage industry best for their organization.

Readings: The Facility Manager's Guide to Information Technology: Second Edition
by Geoff Williams & Michael May

ISBN – 13: 978-1938780004

ISBN – 10: 1938780004

Assignments:

- Current Technologies in Use Assessment
- Technology Review

Topics:

- Overview of Information Technology (IT) in FM
- Trends, technologies, and key areas
- Case study #1 – University Mobile Deployment
- Case study #2 – A Tale of Two Hospitals

Units:

1. Introduction to Information Technology (IT) in FM
2. Case Studies of Organizations

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Organizational Change Certificate

Course code: ORG200

Suggested prerequisite: OM100

Approximate duration: 4-8 weeks

3 CEUs, 30 LUs

Overview

The implementation of a new process, practice, and/or tool may seem as a simple modification on the surface, but have true organizational change and transformational implications for a company. Process and software changes can have major impacts to employees' sense of the meaning of their job, future employment, and overall effectiveness. Successful companies have avoided the common pitfalls and developed effective change management strategies to guide their actions. This certificate will expose you to the theories of change management, share recent research in the built environment, and share a case study of a typical change endeavor, so you can learn from best practices. The successful FM is able to craft a plan to avoid the common pitfalls of organizational change efforts. **Topics:**

Topics

- The contracting environment in the industry.
- Organizational Change Theories.
- Research from the 500+ different organizations in the A/E.C industry.
- Case Study of Fortune 10 Company.

Units:

1. Organizational Change Introduction.
2. Theories in Organizational Change.

Readings: Leading Change by John P. Kotter

ISBN – 10: 9781422186435

ISBN – 13: 978-1422186435

Assignments:

- Identify What Went Wrong for the Company in an Implementation Effort (select one case study, provided)

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Roofing Inspections Certificate

Topics:

- Overview of the different roofing systems' products
- How to conduct an assessment of the roof
- Common areas of continued maintenance
- An overview of factors to consider in warranties
- Case Studies

Coming Soon!!!

Procurement Fundamentals Certificate

Topics:

- How to effectively work with procurement agencies
- Different types of solicitations
- Learn how to understand and navigate the legal red tape
- Common pitfalls of bad RFPs
- How to not be fooled by consultants selling their products
- Effectively identifying the scope and scope of work

Coming Soon!!!

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