

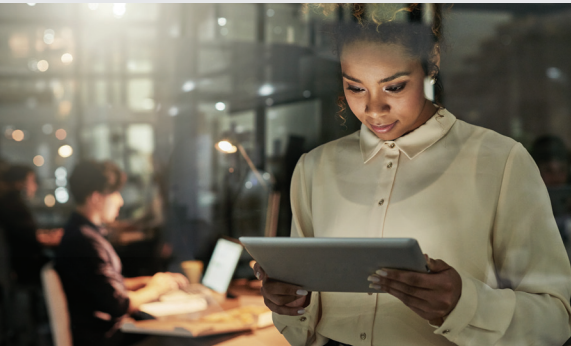
ProFMITM

PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE



ProFEMTM

CREDENTIAL PROGRAM



**STUDENT
SLIDES BOOK**



Instructor-Led Student Slides

Table of Contents

Course Introduction	1
Module 1: Competencies for Facility Professionals	5
Section 1: Facilities and the Value of Facility Management.....	5
Section 2: Cross-Functional Competencies	16
Section 3: Communication.....	20
Section 4: Sustainability.....	34
Section 5: Quality.....	49
Section 6: Collaboration.....	67
Section 7: Innovation	81
Module 2: Asset Management	90
Section 1: Introduction to Asset Management.....	90
Section 2: Project Management	94
Section 3: Strategic Planning	123
Section 4: Capital Planning	145
Section 5: Construction.....	172
Module 3: Risk Management	203
Section 1: Introduction to Risk Management.....	203
Section 2: Compliance and Standards	209
Section 3: Environmental Health and Safety.....	216
Section 4: Security.....	248
Section 5: Emergency Management	261
Module 4: Business Management.....	274
Section 1: Introduction to Business Management.....	274
Section 2: Human Capital.....	280
Section 3: Leadership Skills	300
Section 4: Financial Management	314
Section 5: Procurement	345
Section 6: Contract Management.....	357
Section 7: Real Estate	365
Module 5: Operations and Maintenance.....	376
Section 1: Introduction to Operations and Maintenance	376
Section 2: Technical Services	379
Section 3: Occupant Services	408
Section 4: Work Management	424
Section 5: Utility Management.....	441
Section 6: Space Management	458

Course Introduction



The slide features a dark grey header with the text "ProFM™ Credential Program" on the left and two logos on the right: "ProFMI™ PROFESSIONAL FACILITY MANAGEMENT INSTITUTE" and "ProFM™ CREDENTIAL". The main content area is white and contains the following text:

Participant Introductions

- Your name
- Company name and/or job responsibilities
- Reason(s) for taking this course

At the bottom of the slide, there is a thin horizontal line. Below this line, on the left, is the text "© 2018 ProFMI. All rights reserved." and on the right is the text "Course Introduction" followed by the number "2".

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACULTY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Instructor Responsibilities

- Be prepared.
- Establish a climate of trust.
- Anchor information against background and expertise.
- Be a resource for students.

© 2018 ProFMI. All rights reserved. Course Introduction 3

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACULTY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL



Student Responsibilities

- Be prepared—complete class pre-work.
- Take part in class discussions and activities.
- Follow the rules of common courtesy.
- Provide feedback to the instructor.

Note: You must score 70 percent or higher on the Final Assessment to earn the ProFM credential.

© 2018 ProFMI. All rights reserved. Course Introduction 4

ProFM™ Credential Program





Course Components

Reading materials



Five books:

- Module 1: Competencies for Facility Professionals
- Module 2: Asset Management
- Module 3: Risk Management
- Module 4: Business Management
- Module 5: Operations and Maintenance



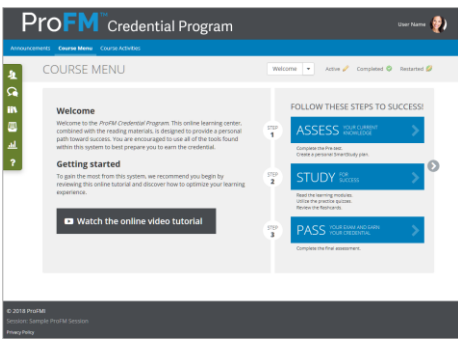
© 2018 ProFMI. All rights reserved.
Course Introduction
5

ProFM™ Credential Program

Course Components

Online reinforcement tools



- Pre-Test
- SmartStudy Tool
- Section-Specific Quizzes
- Glossary
- Module Flashcards
- Final Assessment
- Resource Center

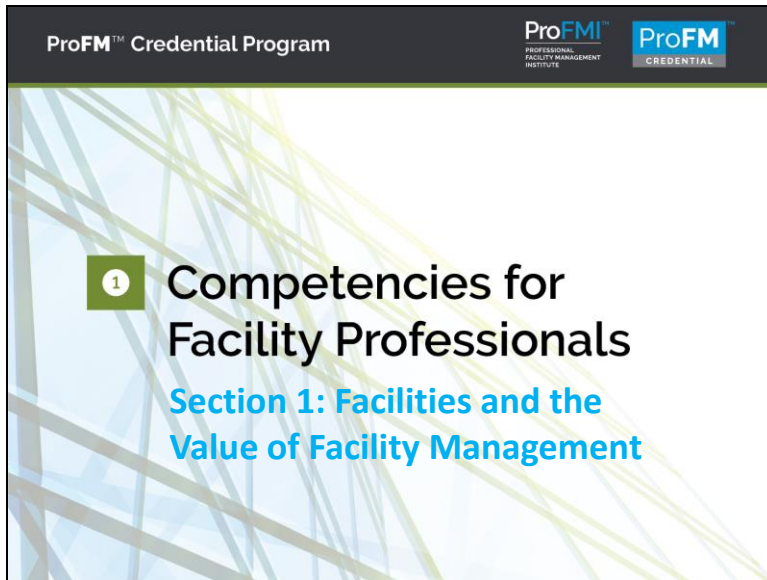
© 2018 ProFMI. All rights reserved.
Course Introduction
6

The diagram illustrates the ProFM Credential Program structure. It begins with a Pre-Test and SmartStudy. This is followed by Reading Materials in electronic or print format, divided into five Modules. Each module leads to a corresponding Section Quiz (Section 1 to 7). The program also includes Flashcards, Progress Reports, and a Final Assessment (Part 1: Knowledge Exam and Part 2: Application Exam). The final goal is to Earn your ProFM credential. The diagram is supported by images of a ProFM website on a desktop, laptop, and tablet, and a stack of ProFM course materials.

© 2018 ProFMI. All rights reserved. Course Introduction 7

Module 1: Competencies for Facility Professionals

Section 1: Facilities and the Value of Facility Management



Section 1 Topic Preview

- **Topic 1:** Facility Management
- **Topic 2:** Facility Managers
- **Topic 3:** Adding Value and Marketing the FM Function
- **Topic 4:** International Standards ISO 41011, 41012, and 41013

© 2018 ProFMI. All rights reserved. Module 1, Section 1 2



ProFM™ Credential Program  

ISO FM Standards

ISO standards help create validation for the FM profession.

- ISO 41011:2017**
 - Glossary of facility management terms
- ISO 41012:2017**
 - Strategic sourcing and the development of agreements
- ISO 41013:2017**
 - Scope, key concepts, and benefits of facility management
- ISO 41001**
 - Guidance on the use of management systems—planned for 2018 release

© 2018 ProFMI. All rights reserved. Module 1, Section 1 3

ProFM™ Credential Program  

Facility Management

Facility management:

An “organizational function which integrates people, place, and process within the built environment with the purpose of improving the quality of life of people and the productivity of the core business” (ISO 41011)

Organizations might use an internal definition that covers the unique scope of services for the organization.

© 2018 ProFMI. All rights reserved. Module 1, Section 1 4

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Benefits of FM

- Facility strategies linked to organizational strategy.
- Single point of contact between organization and service supply.
- Reduced conflicts, increased service flexibility, efficiencies of scale.
- Innovation in performance improvement, quality, and cost-effectiveness.
- Transparency in cost, service level, and quality.
- Best-in-class facilities enhance brand and reputation.
- Life-cycle assessments promote sustainability and reduce risks.
- Continuity of operations and reduced risk of litigation.

© 2018 ProFMI. All rights reserved. Module 1, Section 1 5

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Need for FM

- Create integrated plans.
- Justify the existence of facilities and services.
- Ensure that facilities are lean, flexible, effective.
- Provide only services that are in demand.
- Deliver services with best value for money.
- Ensure life safety and regulatory compliance.
- Enable efficient execution of core functions.

© 2018 ProFMI. All rights reserved. Module 1, Section 1 6


ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Assets, Facilities, Services

- **Asset**
“Item, thing or entity that has potential or actual value to an organization”
- **Facility**
“Collection of assets which is built, installed or established to serve an entity’s needs”
- **Facility service**
“Support provision to the primary activities of an organization, delivered by an internal or external provider”







© 2018 ProFMI. All rights reserved. Module 1, Section 1 7

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE


ProFM™
CREDENTIAL

Factors Influencing Scope

-  Private sector
-  Public sector
-  Educational sector
-  Nonprofit sector

© 2018 ProFMI. All rights reserved. Module 1, Section 1 8

ProFM™ Credential Program ProFMI™ PROFESSIONAL FACILITY MANAGEMENT INSTITUTE ProFM™ CREDENTIAL

 **Discussion Question**

Which of the different sectors do you have FM experience with? In what ways did the characteristics of that sector shape your responsibilities?

© 2018 ProFMI. All rights reserved. Module 1, Section 1 9

ProFM™ Credential Program ProFMI™ PROFESSIONAL FACILITY MANAGEMENT INSTITUTE ProFM™ CREDENTIAL

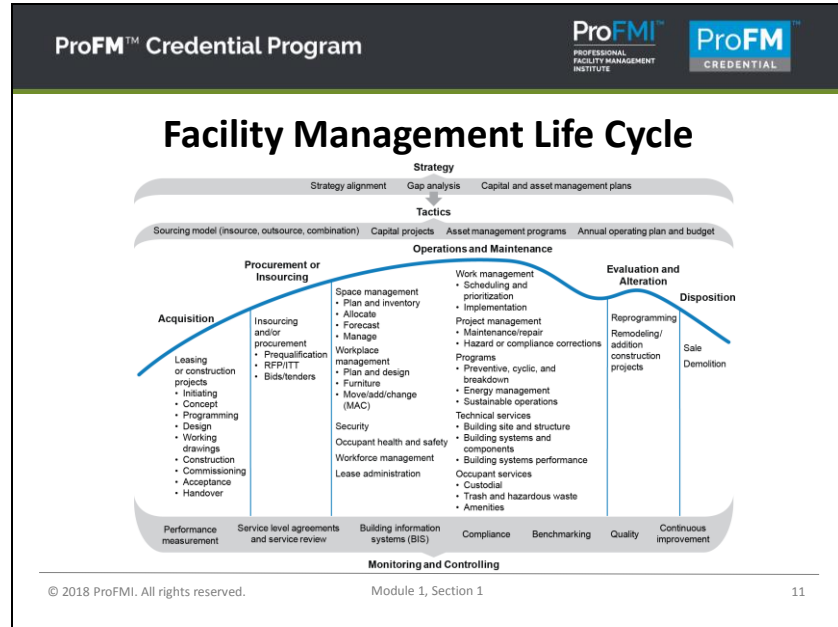
Demand Organization

Demand organization, defined by ISO 41011:
“Entity which has a need and the authority to incur costs to have requirements met”

Demand organization characteristics

- Typically an authorized representative from an organization.
- Could be internal or external.
- Customers must be kept satisfied, healthy, safe, and productive.

© 2018 ProFMI. All rights reserved. Module 1, Section 1 10



ProFM™ Credential Program | PROFESSIONAL FACILITY MANAGEMENT INSTITUTE | ProFM™ CREDENTIAL

FM Profession

- The core of FM consists of both “hard” and “soft” services.
- An **occupant** is “any employee, contractor, customer, or guest who spends time in a facility and provides or uses its services.”
- Recognition of the profession is driven by vocabulary and processes, the presence of undergraduate/graduate degrees, and the publication of international standards.

© 2018 ProFMI. All rights reserved. Module 1, Section 1 12

ProFM™ Credential Program ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE ProFM™
CREDENTIAL

Oversight of FM Function

FM authority should be equal to human resources or information technology director.

Other FM Professional Positions

- Operations and maintenance
- Construction
- Real estate
- Project management
- Technical services

© 2018 ProFMI. All rights reserved. Module 1, Section 1 13

ProFM™ Credential Program ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE ProFM™
CREDENTIAL

FM Manager Roles and Responsibilities

Strategic	Tactical	Operational
<ul style="list-style-type: none"> Develop and align FM strategy. Set policies and procedures. Determine KPIs. Communicate with upper management. Plan risk management. Maintain good relationships with stakeholders. 	<ul style="list-style-type: none"> Implement strategy guidelines for resource use. Link tactics to strategy by defining program-specific KPIs. Monitor and control compliance, performance, and service level agreement adherence. 	<ul style="list-style-type: none"> Deliver maintenance services. Monitor and control service at specific level of KPIs. Collect feedback from demand organization. Provide oversight or manage projects. Conduct continuous improvement and roll out training.

© 2018 ProFMI. All rights reserved. Module 1, Section 1 14

ProFM™ Credential Program

ProFMI™ PROFESSIONAL FACILITY MANAGEMENT INSTITUTE

ProFM™ CREDENTIAL

Technical Versus Management Expertise

Technical	Management
Reading plans	Understanding financial data
Real estate management	Relationship management
Using software	Leadership
	Innovation and change management

Organizations may favor either, depending on industry.

© 2018 ProFMI. All rights reserved. Module 1, Section 1 15

ProFM™ Credential Program

ProFMI™ PROFESSIONAL FACILITY MANAGEMENT INSTITUTE

ProFM™ CREDENTIAL

Reactive versus Proactive Management


Proactivity may include:

- Involvement with organizational strategic planning.
- Innovating.
- Collaborating.
- Integrating.
- Risk and cost analysis.
- Cyclic, predictive, and preventive maintenance.

Management Goal	Percentage
Proactive	75%
Reactive	25%

© 2018 ProFMI. All rights reserved. Module 1, Section 1 16

ProFM™ Credential Program ProFMI™ PROFESSIONAL FACILITY MANAGEMENT INSTITUTE ProFM™ CREDENTIAL

 **Discussion Question**

What has been your experience with deploying proactive management? Have you found situations where you could demonstrate that proactive management created cost savings for your organization?

© 2018 ProFMI. All rights reserved. Module 1, Section 1 17

ProFM™ Credential Program ProFMI™ PROFESSIONAL FACILITY MANAGEMENT INSTITUTE ProFM™ CREDENTIAL

Managing Tradeoffs

Conflicting goals that may need to be managed include:

- Saving money but being more responsive to user needs.
- Improving productivity and efficiency while improving work environment.
- Providing work/life balance and staying on schedule.
- Investing in sustainability but staying on budget.
- Being reactive and proactive.
- Being consistent and reliable yet innovative and flexible.

© 2018 ProFMI. All rights reserved. Module 1, Section 1 18

ProFM™ Credential Program


ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Adding Value

FM can add value to an organization by:

- Ensuring legal compliance.
- Cutting costs.
- Improving productivity and flexibility.
- Supporting the demand organization's brand.
- Contributing to sustainability.



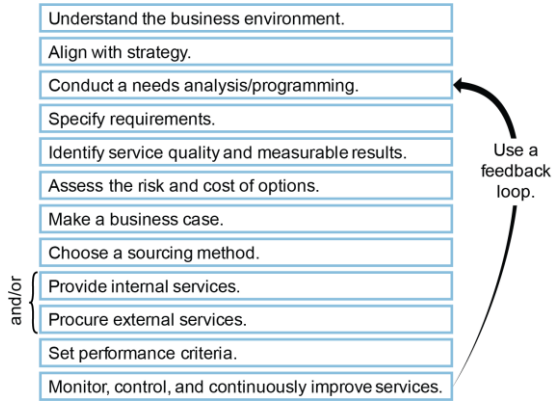
© 2018 ProFMI. All rights reserved. Module 1, Section 1 19

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

ISO 41012's Sourcing Process



The flowchart consists of 13 horizontal boxes stacked vertically. The first seven boxes are: 'Understand the business environment.', 'Align with strategy.', 'Conduct a needs analysis/programming.', 'Specify requirements.', 'Identify service quality and measurable results.', 'Assess the risk and cost of options.', and 'Make a business case.'. The next two boxes are grouped by a bracket on the left labeled 'and/or' and contain 'Provide internal services.' and 'Procure external services.'. The final two boxes are 'Set performance criteria.' and 'Monitor, control, and continuously improve services.'. A curved arrow on the right points from the bottom box back to the 'Conduct a needs analysis/programming.' box, with the text 'Use a feedback loop.' next to it.


and/or

Use a feedback loop.

© 2018 ProFMI. All rights reserved. Module 1, Section 1 20

ProFM™ Credential Program **ProFMI™** Professional Facility Management Institute **ProFM™** CREDENTIAL

Questions?



© 2018 ProFMI. All rights reserved. Module 1, Section 1 21

Section 2: Cross-Functional Competencies



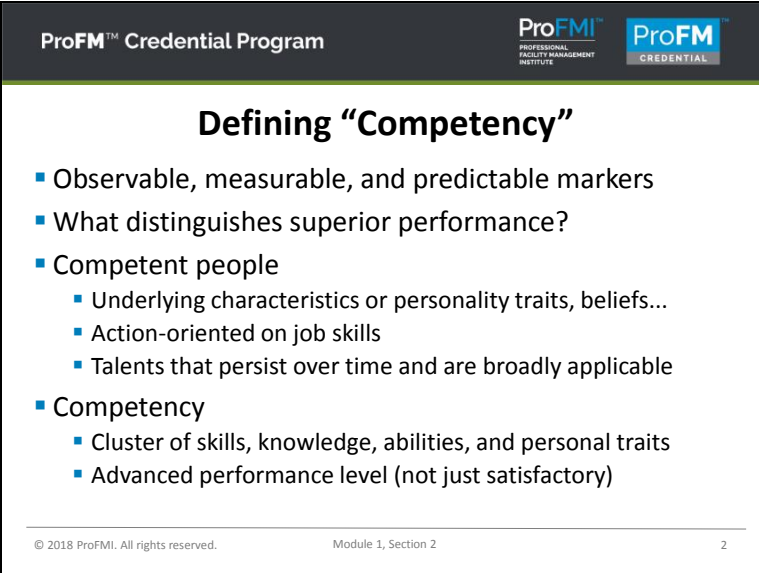
ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

1 Competencies for
Facility Professionals

Section 2: Cross-Functional
Competencies



ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Defining "Competency"

- Observable, measurable, and predictable markers
- What distinguishes superior performance?
- Competent people
 - Underlying characteristics or personality traits, beliefs...
 - Action-oriented on job skills
 - Talents that persist over time and are broadly applicable
- Competency
 - Cluster of skills, knowledge, abilities, and personal traits
 - Advanced performance level (not just satisfactory)

© 2018 ProFMI. All rights reserved. Module 1, Section 2 2

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Types of Competencies


- Technical
 - Role's functional expertise (skills, knowledge)
 - Asset, risk, and business management; O&M
- Managerial
 - Planning, organizing, and directing work
- Cognitive
 - Pattern recognition and abstract thinking
 - From strategic to tactical to operational
- Interpersonal
 - Communicating, motivating, resolving conflicts, collaborating
 - Emotional intelligence (self and others)

© 2018 ProFMI. All rights reserved. Module 1, Section 2 3

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL



Discussion Question

Which is a type of “super competency” that combines technical, managerial, cognitive, and interpersonal competencies?

- a) Core competency
- b) Leadership
- c) Trust

© 2018 ProFMI. All rights reserved. Module 1, Section 2 4

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Core Competencies

Something done especially well in comparison to competitors or other individuals; directly tied to strategy and culture.



Learn more about your organization's core competencies.



Develop FM core competencies that align with organizational core competencies.

© 2018 ProFMI. All rights reserved. Module 1, Section 2 5

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

How Are Competencies Developed?

- Natural aptitude exists in some, but skills, knowledge, and abilities can be developed over time.
- **Technical and managerial:** Education, training, and on-the-job practice.
- **Interpersonal:** Practice; get coaching.
- **Cognitive**
 - Novel experiences for “plasticity.”
 - Challenge self.
 - Think creatively to find connections.
 - Do it the hard way sometimes.



© 2018 ProFMI. All rights reserved. Module 1, Section 2 6

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

ProFM Cross-Functional Competencies

Competency
“threads”

- Communication
- Sustainability
- Quality
- Collaboration
- Innovation


© 2018 ProFMI. All rights reserved. Module 1, Section 2 7

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Questions?



© 2018 ProFMI. All rights reserved. Module 1, Section 2 8

Section 3: Communication

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

1 Competencies for
Facility Professionals
Section 3: Communication

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Section 3 Topic Preview

- **Topic 1:**
Communication Basics
- **Topic 2:**
Communication Plan
- **Topic 3:** Other
Communication
Opportunities

© 2018 ProFMI. All rights reserved. Module 1, Section 3 2

ProFM™ Credential Program ProFMI™ PROFESSIONAL FACILITY MANAGEMENT INSTITUTE ProFM™ CREDENTIAL


Forms of Communication

Communication comes in many forms, including:

- Giving/receiving feedback.
- Staff meetings.
- Daily status meetings.
- Operations logs.
- Weekly planning.
- Monthly engineering reports.
- Monthly EH&S reports.
- Incident reports.
- Process or procedures updates.
- Board presentations.

© 2018 ProFMI. All rights reserved. Module 1, Section 3 3

ProFM™ Credential Program ProFMI™ PROFESSIONAL FACILITY MANAGEMENT INSTITUTE ProFM™ CREDENTIAL



Discussion Question

In addition to the examples shown on the previous slide, what are some other examples of communication that you may use in your role as a facility manager?

© 2018 ProFMI. All rights reserved. Module 1, Section 3 4

ProFM™ Credential Program ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE ProFM™
CREDENTIAL

Dimensions of Communication

There are four primary dimensions of communication:

- Vertical/horizontal
- Internal/external
- Formal/informal
- Written and voice/nonverbal

© 2018 ProFMI. All rights reserved. Module 1, Section 3 5

ProFM™ Credential Program ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE ProFM™
CREDENTIAL

Communication Model

There are **6 primary steps** in the communication model:

© 2018 ProFMI. All rights reserved. Module 1, Section 3 6


ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Communication “Noise”

- At each point during the communication exchange, certain obstacles may prevent good communication. These obstacles are known as **noise**.
- Examples of noise include:
 - Wrong receiver.
 - Preconceived notions.
 - Culture.
 - Language barriers.
 - Previous interactions.




© 2018 ProFMI. All rights reserved. Module 1, Section 3 7

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL



Discussion Question


Noise impacts every step of the communication exchange. Other than the examples we just saw, what are some other examples of noise you have experienced firsthand?

© 2018 ProFMI. All rights reserved. Module 1, Section 3 8

ProFM™ Credential Program ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE ProFM™
CREDENTIAL

Clarity

Lack of clarity is a common cause of communication breakdowns.



To avoid this, senders must ensure that they are:

- Communicating the right message.
- Using appropriate language.
- Stating what response or action, if any, is required.
- Placing emphasis on the right things.
- Selecting the best media.

© 2018 ProFMI. All rights reserved. Module 1, Section 3 9

ProFM™ Credential Program ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE ProFM™
CREDENTIAL

Communication Options

Communication Option	Most Effective When...
Face-to-face	<ul style="list-style-type: none"> • Building trust or new relationships • Sharing sensitive information • Sharing difficult messages
Telephone (voice-to-voice)	Best alternative when you cannot be face-to-face
Voice mail	<ul style="list-style-type: none"> • Brief messages • When you need to communicate the same message to multiple people
Email	<ul style="list-style-type: none"> • More complex messages that require detailed information • When the receiver needs to refer to the message • When you need to communicate the same message to multiple people • To create a record of the communication

© 2018 ProFMI. All rights reserved. Module 1, Section 3 10

ProFM™ Credential Program ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE ProFM™
CREDENTIAL

Communication Options *(continued)*

Communication Option	Most Effective When...
Text/chat	<ul style="list-style-type: none"> Brief messages When the sender or receiver is in a location where he or she cannot conduct a phone call
Written	<ul style="list-style-type: none"> When the message is complex or lengthy or requires detailed information When the message will need to be referenced in the future When the message is meant for a larger audience To create a record of the communication
Oral	<ul style="list-style-type: none"> When an immediate action or response is required When questions are anticipated When a message needs to be communicated to a larger group When the group's buy-in is needed

© 2018 ProFMI. All rights reserved. Module 1, Section 3 11

ProFM™ Credential Program ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE ProFM™
CREDENTIAL

Communication Challenges

- Technical speak**
Speaking at a level the receiver doesn't understand.
- Poor listening skills**
Not taking the time to listen during the communication process.
- Over-communication**
Sending too many messages for the receiver to decode and respond to.

© 2018 ProFMI. All rights reserved. Module 1, Section 3 12

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Importance of Being a Good Communicator

Being an excellent communicator can help a facility manager:

- ✓ Establish credibility.
- ✓ Create a safer workplace.
- ✓ Get a promotion.
- ✓ Gain additional budget.
- ✓ Build the trust of employees, colleagues, and contractors.
- ✓ Become a trusted advisor to the board of directors.



© 2018 ProFMI. All rights reserved. Module 1, Section 3 13

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Effective Listening

5 key steps in becoming a better listener:

- 1) Be alert.
- 2) Demonstrate that you are listening.
- 3) Offer feedback.
- 4) Postpone judgment.
- 5) React appropriately.

© 2018 ProFMI. All rights reserved. Module 1, Section 3 14

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Communication Plan

- Road map for getting message delivered to right people at right time.
- Can help facility manager focus message.
- Must be continually used and revised based on facility managers' experience.

© 2018 ProFMI. All rights reserved. Module 1, Section 3 15

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Communication Plan Development Process

There are **6 steps** for developing a communication plan:

- Step 1: Identify the purpose and objectives.
- Step 2: Identify the audience(s).
- Step 3: Determine the message.
- Step 4: Select the communication method.
- Step 5: Establish a timetable.
- Step 6: Evaluate the results.

© 2018 ProFMI. All rights reserved. Module 1, Section 3 16

ProFM™ Credential Program


ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Step 1: Identify the Purpose and Objectives

Make sure that your objectives are SMART:

- S**pecific
- M**easurable
- A**chievable
- R**elevant
- T**ime-bound



© 2018 ProFMI. All rights reserved. Module 1, Section 3 17

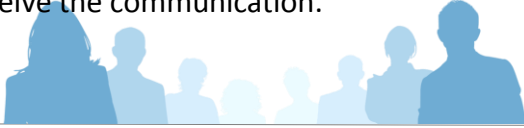
ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Step 2: Identify the Audience(s)

- Understanding the target audience for a message will help you communicate more effectively.
- Includes knowing:
 - Who the audience is.
 - Their interests, needs, priorities, and concerns.
 - How and when to communicate with them.
- Be sure to consider if there are audiences that should not receive the communication.



© 2018 ProFMI. All rights reserved. Module 1, Section 3 18

ProFM™ Credential Program ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE ProFM™
CREDENTIAL

Step 3: Determine the Message

- Determine the key messages that need to be conveyed—and if there is any information that should not be shared.
- Audience wants to know what the initiative is, what the purpose is, why it is important, and what impact it will have on them and the organization.
- Tailor the content of the message to the specific needs of the intended audience.

© 2018 ProFMI. All rights reserved. Module 1, Section 3 19

ProFM™ Credential Program ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE ProFM™
CREDENTIAL

Step 4: Select the Communication Method

- Determine which methods are most suitable in light of purpose, objectives, target audience, key messages, and budget.
- May need to use different communication channels to reach different audiences.

Communication Methods	
Oral Communication	Written Communication
<ul style="list-style-type: none"> Meetings Public announcement system Walkie-talkies Public radio broadcast Face-to-face conversation Voice mail Briefings Town hall meetings 	<ul style="list-style-type: none"> Newsletters Email Internet (social media, website) Notice boards, posters, banners Leaflets or flyers Short message service (SMS) or text Newspaper Reports

© 2018 ProFMI. All rights reserved. Module 1, Section 3 20


ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Step 5: Establish a Timetable

- Based on the purpose and objectives of the first step and the resources available, develop a well-thought-out timing strategy for executing the communication plan.



© 2018 ProFMI. All rights reserved. Module 1, Section 3 21

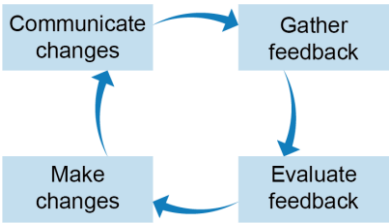
ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Step 6: Evaluate the Results

- Measure the impact of the communication—this enables you to make adjustments to improve communication in the future.
- Use a **feedback loop** to measure the effectiveness of communication.



```
graph TD; A[Communicate changes] --> B[Gather feedback]; B --> C[Evaluate feedback]; C --> D[Make changes]; D --> A;
```

© 2018 ProFMI. All rights reserved. Module 1, Section 3 22

ProFM™ Credential Program ProFMI™ PROFESSIONAL FACILITY MANAGEMENT INSTITUTE ProFM™ CREDENTIAL

Marketing the FM Department

Two primary goals:

- Increase awareness of the services provided.
- Decrease resistance to policies and procedures.

Actions to increase visibility of FM:

- Be present and visible.
- Encourage cost awareness.
- Get published.
- Join a professional association.
- Be flexible where/when you can.
- Explain why you are saying no.
- Outsource when appropriate.
- Speak the customer’s language.

© 2018 ProFMI. All rights reserved. Module 1, Section 3 23

ProFM™ Credential Program ProFMI™ PROFESSIONAL FACILITY MANAGEMENT INSTITUTE ProFM™ CREDENTIAL

Elevator Pitch


- One way to market your department is through an “elevator pitch.”
- A good pitch should be no longer than a short elevator ride.

Follow these five steps for a good elevator pitch:

1. Identify the goal.
2. Explain what you do.
3. Share what makes your department unique.
4. Engage with an open-ended question.
5. Put it all together and practice.

© 2018 ProFMI. All rights reserved. Module 1, Section 3 24

ProFM™ Credential Program ProFMI™ PROFESSIONAL FACILITY MANAGEMENT INSTITUTE ProFM™ CREDENTIAL



Discussion Question

In addition to the elevator pitch, what are some good ways to market your facility management department?

© 2018 ProFMI. All rights reserved. Module 1, Section 3 25

ProFM™ Credential Program ProFMI™ PROFESSIONAL FACILITY MANAGEMENT INSTITUTE ProFM™ CREDENTIAL

Communicating Regarding Specific Issues

Sample Situations:

Sustainability	Policies/Procedures	Change
<ul style="list-style-type: none">Be proactive.Determine if sustainability report is being created.Be transparent.Provide information grounded in science.Don't use threatening messages.Tell a story to highlight key points and behavior changes required.	<ul style="list-style-type: none">Share why created, purpose, and how document(s) will be used.Develop communication strategy before documenting policy/procedure.Use simple wording for ease of understanding.	<ul style="list-style-type: none">Share what is changing and why.Avoid using acronyms or jargon.Share relevant information as soon as possible.Use variety of communication methods.Ensure two-way communication.


© 2018 ProFMI. All rights reserved. Module 1, Section 3 26

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Questions?



© 2018 ProFMI. All rights reserved. Module 1, Section 3 27

Section 4: Sustainability

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

1 Competencies for
Facility Professionals
Section 4: Sustainability


ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Section 4 Topic Preview

- **Topic 1:** Sustainability Strategies
- **Topic 2:** Triple Bottom Line
- **Topic 3:** Green Building Rating Systems
- **Topic 4:** Other Sustainability Tools
- **Topic 5:** Sustainability Reporting



© 2018 ProFMI. All rights reserved. Module 1, Section 4 2


ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

What Is Sustainability?

- Customers, economic interests, public attitudes, and regulations shifting from “all-eyes-on-profit” mentality
- Safety and health of customers, workers, community
- Good conduct toward workers
- ISO: Needs of present met without compromising future
- Documented evidence of changes in practices
- Key part of strategy: FM alignment







© 2018 ProFMI. All rights reserved. Module 1, Section 4 3

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Benefits of Sustainability

-  Productivity and health: Indoor environmental quality
-  Optimized systems for energy and water that cost less from life-cycle perspective
-  Tax benefits, subsidies, and community goodwill
-  Better employees attracted at less expense
-  Consumer awareness
-  Ethical imperative
-  FM: More satisfied and productive occupants, longer equipment life

© 2018 ProFMI. All rights reserved. Module 1, Section 4 4

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Sustainability Competency

Knowledge	}	<ul style="list-style-type: none">• Understand impacts on productivity, utility use, waste• Current on innovations
Skills		<ul style="list-style-type: none">• Measure, analyze, report• Business cases for sustainability
Abilities		<ul style="list-style-type: none">• Requires leadership toward vision• Change management

© 2018 ProFMI. All rights reserved. Module 1, Section 4 5

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Sustainability Strategies

Values	<ul style="list-style-type: none">• Alignment• Accountability	<ul style="list-style-type: none">• Implementation• Control
↓	↓	↓
Organizational strategy	FM strategic plan	FM work plans
→	→	
↓	↓	↓
<ul style="list-style-type: none">• Goals• Leadership support (e.g., chief sustainability officer)	<ul style="list-style-type: none">• Program goals• Budgets	<ul style="list-style-type: none">• Initiatives• Reporting• Continuous improvement


© 2018 ProFMI. All rights reserved. Module 1, Section 4 6

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

FM Sustainability Initiatives

 Energy use and emissions <ul style="list-style-type: none">• Controls• Solar	 Water use <ul style="list-style-type: none">• Use and re-use• Local availability, treatment
 Site impacts <ul style="list-style-type: none">• Storm water discharge, erosion• Light pollution	 Materials and waste <ul style="list-style-type: none">• Depletion of limited resources• Sourcing, recycling, hazards
 Business processes <ul style="list-style-type: none">• O&M: Life-cycle extension• Procurement: Supplier validation	 Occupants <ul style="list-style-type: none">• Indoor environmental quality• Motivation, retention


© 2018 ProFMI. All rights reserved. Module 1, Section 4 7

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Discussion Question

 What is the best way to communicate the sustainability strategy?

- Use stand-alone initiatives and events.
- Champion both profit and sustainability.
- Criticize the profit growth motivation.
- Keep stakeholders guessing but innovate.

© 2018 ProFMI. All rights reserved. Module 1, Section 4 8

ProFM™ Credential Program ProFMI™ PROFESSIONAL FACILITY MANAGEMENT INSTITUTE ProFM™ CREDENTIAL

FM's Role in Creating Sustainable Facility

Direct approach

- Present your ideas.
- New hire with a plan.
- Compelling arguments.
- Long-term profit.
- Stakeholder networking.
- Build support.
- Only way for large scale.

Indirect approach

- Work behind scenes.
- Stay in area of influence.
- Present successes after.
- Quick wins:
 - Can execute change.
 - How change helped.
 - Team motivation.
 - Get experience.

© 2018 ProFMI. All rights reserved. Module 1, Section 4 9

ProFM™ Credential Program ProFMI™ PROFESSIONAL FACILITY MANAGEMENT INSTITUTE ProFM™ CREDENTIAL

Triple Bottom Line

The diagram consists of three overlapping circles. The top circle is labeled 'Environmental (Planet)', the bottom-left circle is 'Economic (Profit)', and the bottom-right circle is 'Social (People)'. The central area where all three circles overlap is labeled 'Sustainability'.

- Profits
- ROI
- Tax benefits
- New jobs
- Cash flow

- Emissions/waste management
- Energy use
- Climate impact
- Site/ecological impact
- Resource management

- Occupant satisfaction
- Health/safety
- Training/development
- Labor practices
- Human rights

© 2018 ProFMI. All rights reserved. Module 1, Section 4 10

ProFM™ Credential Program

ProFMI™ PROFESSIONAL FACILITY MANAGEMENT INSTITUTE

ProFM™ CREDENTIAL

Economic, Social, and Environmental

Profit	People	Planet
Revenue, market share, jobs, liquidity	Wages, benefits, positive workplace, EHS	Population pressure: Energy, water, materials
Toxic dumping, low pay, etc., hurt long-term profit.	Environment and profit but also wages, comfort	Tradeoffs in environmental goods, options

© 2018 ProFMI. All rights reserved. Module 1, Section 4 11

ProFM™ Credential Program



ProFMI™ PROFESSIONAL FACILITY MANAGEMENT INSTITUTE

ProFM™ CREDENTIAL

Sustainability “Sweet Spot”

- Sustainable water use: Kerala, India
 - Village’s aquifers dry but not soft drink company aquifer.
 - Not their problem, but helped set up rain water collection.
 - Villagers blocked protesters from shutting down plant.
- Sustainable facility lighting: fluorescent to LED
 - Expensive investment but 5-year payback, cost savings after.
 - Higher quality of light can improve productivity, retention.
- Sustainable indoor environmental quality
 - Reduced illness, distraction, carbon emissions.
 - Less churn reduces expensive hiring costs.

© 2018 ProFMI. All rights reserved. Module 1, Section 4 12

ProFM™ Credential Program  

Green Building Rating Systems

- Whole-building certification or as source of ideas
- May require third-party or government inspection; possible periodic evaluation
- Transportation category
- Choosing a system
 - Government regulations
 - Government preference
 - Group affiliation
 - Facility fit
- Advantages
 - TBL transparency
 - Minimize impacts
 - O&M savings
 - Marketing and recruiting

© 2018 ProFMI. All rights reserved. Module 1, Section 4 13

ProFM™ Credential Program  

Leadership in Energy and Environmental Design (LEED)

- Leading US measurement for sustainable facilities
- Number of certifications for types of facilities/construction projects
 - LEED-NC: New Commercial Construction
 - LEED-EB: Existing Buildings
 - LEED-CS: Core and Shell
 - LEED-CI: Commercial Interiors
- Nongovernment certification (peers govern)
- Corporate social responsibility in profitable way

© 2018 ProFMI. All rights reserved. Module 1, Section 4 14

ProFM™ Credential Program ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE ProFM™
CREDENTIAL

LEED Point System

- **Points:**
 - Certified (40–49)
 - Silver (50–59)
 - Gold (60–79)
 - Platinum (80+)
- **Category prerequisites to meet**

Categories:

- Sustainable Sites
- Water Efficiency
- Energy and Atmosphere
- Materials and Resources
- Indoor Environment Quality
- Innovation

© 2018 ProFMI. All rights reserved. Module 1, Section 4 15

ProFM™ Credential Program ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE ProFM™
CREDENTIAL



UK/Canada/US: BREEAM/Green Globes

- For existing buildings but can use for new construction
- Original green building rating system
- No penalty for lack of system if unnecessary to design
- Percentage of possible points
 - 1 Globe: 35 to 54%
 - 2 Globes: 55 to 69%
 - 3 Globes: 70 to 84%
 - 4 Globes: 85 to 100%
- Third-party verification

Project management
Site
Energy
Water
Resources, materials, solid waste
Emissions and other impacts
Indoor environment

© 2018 ProFMI. All rights reserved. Module 1, Section 4 16

ProFM™ Credential Program

China (Three Star) and Australia (Green Star)

China: Three Star System

- Government program encourages cost savings
- Requires one full year of operation for rating
- Similar to LEED
 - Categories
 - Stars match Silver, Gold, and Platinum ratings



Australia: Green Star

- Local ecology focus
- Involved community

Green Star Categories	
• Management	• Materials
• Indoor environment quality	• Land and ecology use
• Energy	• Emissions
• Transport	• Innovation
• Water	

© 2018 ProFMI. All rights reserved.
Module 1, Section 4
17

ProFM™ Credential Program

Japan (CASBEE) and Green Building Council

Japan: CASBEE

- Government agency
- Academia, industry
- Similar categories plus focus on co-efficiency
 - Profit, environmental can coexist
- Pre-design, design, post-construction

Green Building Council

- World Green Building Council
- Not rating system
- Research system to use
- Gather support for business case

© 2018 ProFMI. All rights reserved.
Module 1, Section 4
18

ProFM™ Credential Program

ProFMI™ PROFESSIONAL FACILITY MANAGEMENT INSTITUTE

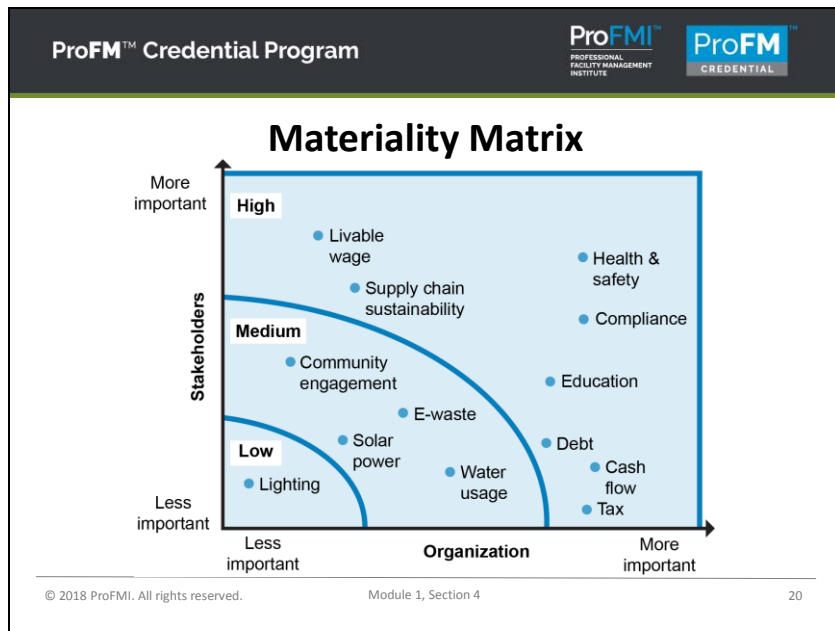
ProFM™ CREDENTIAL

Sustainability Scorecard

Align with vision or present business case to promote

	Focus Area	Change	Goal	Difference	Weighted Score
Economic	Debt	-1	+2	-3	-1
	Cash flow	+3	+3	0	+1
	Portfolio	+1	+2	-1	+1
Environment	Energy	+2	+4	-2	+2
	Waste	-1	+2	-3	-2
	Emissions	+2	+1	+1	+4
Social	Wages	+3	+1	+2	+3
	Workspace	0	+1	-1	0
	Community	+1	+1	0	+1
Sustainability score					+9

© 2018 ProFMI. All rights reserved. Module 1, Section 4 19



ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Carbon Footprint

- CO₂ emissions
 - Direct: From facilities, operations
 - Indirect: From utilities, supply chain, commuting
- Measure; then set reduction goals (1% can be a lot)
- Intended versus unintended
- Add solar panels: Indirect may increase footprint at first
- Ride sharing, public transportation, telecommuting
- Remodel or demolish and start new?

© 2018 ProFMI. All rights reserved. Module 1, Section 4 21

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Equipment Rating Systems

Energy Star	<ul style="list-style-type: none">• US EPA and DOE rating• Performance for set task
GreenSpec	<ul style="list-style-type: none">• Environmental Building News• Recycled, nontoxic, conserving...
Building Energy Quotient	<ul style="list-style-type: none">• ASHRAE energy quantifier• HVAC large % of energy

© 2018 ProFMI. All rights reserved. Module 1, Section 4 22

ProFM™ Credential Program ProFMI™ PROFESSIONAL FACILITY MANAGEMENT INSTITUTE ProFM™ CREDENTIAL

EMS and Waste Audits

Environmental Management System (EMS)

- ISO 14001; ISO 9000 (Quality Management) and 26000 (CSR) also useful
- Collect data, evaluate conditions, implement improvements, monitor results
- Demonstrates commitment
- Cost savings and optimization

Waste Audits and EPA's WasteWise Program


- Difficult due to volume and variety
- Air, water, land
- WasteWise
 - Reduce, reuse, recycle efficiently
 - Recognizes achievements

© 2018 ProFMI. All rights reserved. Module 1, Section 4 23

ProFM™ Credential Program ProFMI™ PROFESSIONAL FACILITY MANAGEMENT INSTITUTE ProFM™ CREDENTIAL



Sustainability Reporting

- Risks versus dividends
 - Honesty and transparency even of failures?
 - Trust and support
 - New business or revenue sources
 - Recruitment and retention
 - Important to know your audience
- Much data already gathered for other uses
 - Beware of diminishing returns from data collection
 - Transparent about what is and is not collected




© 2018 ProFMI. All rights reserved. Module 1, Section 4 24

ProFM™ Credential Program



Global Reporting Initiative (GRI)

- Not a replacement for LEED, Green Star, etc.
- TBL perspectives and holistic measures (carbon footprint)
- Helps quantify progress toward TBL goals, though many measures are non-numerical
- GRI framework
 - Universality
 - Pick and choose standards that apply



© 2018 ProFMI. All rights reserved.
Module 1, Section 4
25

ProFM™ Credential Program

GRI Series

Series	Standard	Description
Universal Standards (100 series)	GRI 101: Foundation	Reporting principles and requirements
	GRI 102: General Disclosures	Context on organization, strategy, ethics, governance, stakeholder engagement, and reporting process
	GRI 103: Management Approach	Why each topic-specific standard is used, where impacts occur, and response
Topic-Specific Standards	GRI 200 (Economic), 300 (Environmental), and 400 (Social)	Disclosures on TBL topic areas with many subtopics

© 2018 ProFMI. All rights reserved.
Module 1, Section 4
26


ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Reporting Principles

- General principles**
 - Stakeholder inclusiveness
 - Sustainability context
 - Materiality
 - Completeness
- Quality of report principles**
 - Accuracy
 - Balance
 - Clarity
 - Comparability
 - Reliability
 - Timeliness




© 2018 ProFMI. All rights reserved. Module 1, Section 4 27

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL



Discussion Question

A facility manager gathers information on occupational and customer health and safety, equal opportunity employment, and local communities. What else is in this series of GRI reporting standards?

- a) Effluents and waste
- b) Security practices and customer privacy
- c) Indirect economic impacts and anti-corruption

© 2018 ProFMI. All rights reserved. Module 1, Section 4 28

ProFM™ Credential Program ProFMI™ PROFESSIONAL FACILITY MANAGEMENT INSTITUTE ProFM™ CREDENTIAL

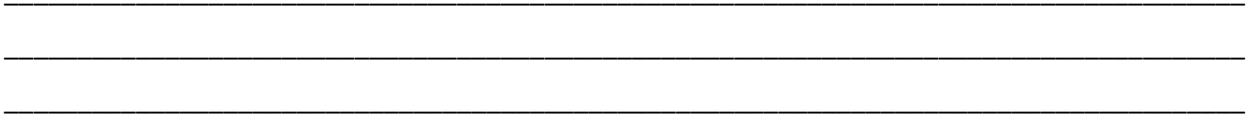
Building Performance Measurement Systems

- Energy efficiency a top priority (cost, carbon footprint)
- Energy use intensity (EUI) index

$$\text{EUI} = \frac{\text{Annual Building Energy Consumption (in MJ or KBtu)}}{\text{Building Area (in square meters or square feet)}}$$


- Utilities supply data: Index uses direct sources only
- Baselines used to set goals and plan projects
- Water consumption: Education, upgrades, recapture
- Waste: Inflow, use, waste handling by category

© 2018 ProFMI. All rights reserved. Module 1, Section 4 29

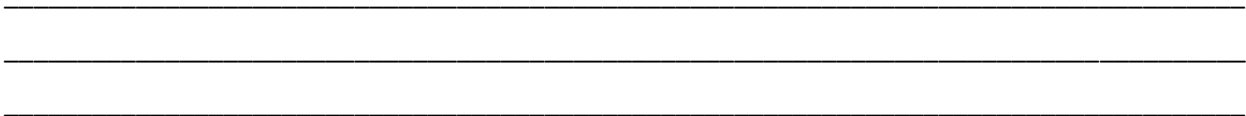


ProFM™ Credential Program ProFMI™ PROFESSIONAL FACILITY MANAGEMENT INSTITUTE ProFM™ CREDENTIAL

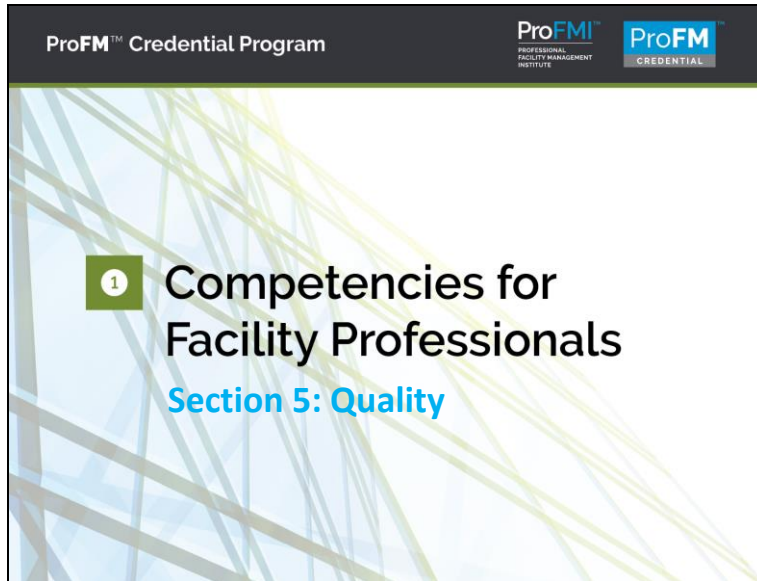
Questions?



© 2018 ProFMI. All rights reserved. Module 1, Section 4 30



Section 5: Quality



ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE



ProFM™
CREDENTIAL

Section 5 Topic Preview

- **Topic 1:** Principles of Quality Management
- **Topic 2:** Quality Facility Management

© 2018 ProFMI. All rights reserved. Module 1, Section 5 2



This slide features a dark grey header with the ProFM™ Credential Program logo on the left and the ProFMI™ Professional Facility Management Institute logo and ProFM™ Credential logo on the right. The main content area is white. The title 'Section 5 Topic Preview' is centered in a bold black font. Below the title are two bullet points: 'Topic 1: Principles of Quality Management' and 'Topic 2: Quality Facility Management'. To the right of the text is an image showing a tablet displaying a document and a book titled 'ProFM™ Credential Program' with 'Competencies for Facility Professionals' on the cover. At the bottom, there is a footer with the copyright notice '© 2018 ProFMI. All rights reserved.', the page number '2', and the text 'Module 1, Section 5'.

ProFM™ Credential Program  

What Is Quality?

- **Quality** is about:
 - Fulfilling customer requirements.
 - Expectations and deviations from expectations.
- **Quality** is not about:
 - High grade materials.
 - Personalized attention.

© 2018 ProFMI. All rights reserved. Module 1, Section 5 3

ProFM™ Credential Program  

What Is Quality Management?

Quality management comprises all activities needed to:

- Identify and prioritize customer requirements.
- Plan processes.
- Define standards and objectives.
- Measure and analyze performance.
- Continually advance quality performance.

A **quality management system** consists of organizational policies to institutionalize efforts to satisfy customer requirements.

© 2018 ProFMI. All rights reserved. Module 1, Section 5 4

ProFM™ Credential Program

ProFMI™ PROFESSIONAL FACILITY MANAGEMENT INSTITUTE

ProFM™ CREDENTIAL

How Does Quality Benefit an Organization?

```
graph TD; A[Improved customer relationships] --- B[Competitive advantage]; B --- C[Fewer errors/defects]; C --- D[Better business practices]; D --- E[Improved cost-effectiveness]; E --- F[Improved workplace atmosphere]; F --- A;
```

© 2018 ProFMI. All rights reserved. Module 1, Section 5 5

ProFM™ Credential Program

ProFMI™ PROFESSIONAL FACILITY MANAGEMENT INSTITUTE

ProFM™ CREDENTIAL

Discussion Question

What are some specific instances that you've experienced where quality benefited your organization?

© 2018 ProFMI. All rights reserved. Module 1, Section 5 6

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

PDCA Cycle

Continual Improvement

Plan

Do

Check

Act

Introduced by Walter Shewhart

© 2018 ProFMI. All rights reserved. Module 1, Section 5 7

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

W. Edwards Deming

Deming's 14 Principles

1. Define improvement of product/ service as organization's purpose.
2. Adopt philosophy.
3. Don't rely on inspection to solve quality problems.
4. Don't prioritize price/cost when purchasing materials or services.
5. Improve constantly.
6. Train in quality techniques.
7. Lead.
8. Drive out fear.
9. Eliminate barriers between staff.
10. Don't rely on performance targets or slogans to motivate employees.
11. Eliminate numerical quotas and goals.
12. Remove barriers to taking pride in performing task.
13. Encourage education for everyone.
14. Make transformation of business every employee's job.

© 2018 ProFMI. All rights reserved. Module 1, Section 5 8

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Other Quality Gurus

J. M. Juran	Philip B. Cosby
Armand Feigenbaum	Kaoru Ishikawa
Genichi Taguchi	Karl Albrecht and Ron Zemke

© 2018 ProFMI. All rights reserved. Module 1, Section 5 9

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

TQM

© 2018 ProFMI. All rights reserved. Module 1, Section 5 10

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

ISO 9001

Covers:

- Requirements for quality management system.
- Management’s responsibilities.
- Alignment of quality objectives.
- Continuous improvement process.

© 2018 ProFMI. All rights reserved. Module 1, Section 5 11

ProFM™ Credential Program

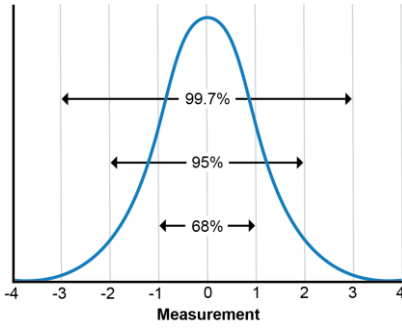
ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Six Sigma

Six Sigma discipline emphasizes:

- Producing real value.
- Statistical analysis.
- DMAIC.
- Organizational incorporation.



The figure shows a normal distribution curve with the x-axis labeled 'Measurement' ranging from -4 to 4. Three horizontal double-headed arrows indicate the following percentages of data within specific ranges:

- 99.7% between -3 and 3
- 95% between -2 and 2
- 68% between -1 and 1

© 2018 ProFMI. All rights reserved. Module 1, Section 5 12

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

European Foundation for Quality Management

EFQM Excellence Model is based on:

- Adding value.
- Aligning with sustainable objectives.
- Developing organization's capabilities.
- Fostering creativity.
- Leading with vision and integrity.
- Agile managing.
- Empowering employees.
- Short- and long-term objectives.

© 2018 ProFMI. All rights reserved. Module 1, Section 5 13

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Affinity Diagram

Business process

Personal

Aesthetic

Health & well-being

Other

Groups similar concepts; can be used in conjunction with brainstorming

© 2018 ProFMI. All rights reserved. Module 1, Section 5 14

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Relationship Diagram

```
graph TD; PM([Project management]) --> PT[Processing time tag/confirmation]; PM --> TT[Timeline too short]; PM --> BD[Bad design]; PM --> ME[Management expectations unrealistic]; IUT[Inadequate user training] --> PT; IUT --> RE[Room conflicts]; UE[User error] --> PT; UE --> RE; NUI[No user input] --> PT; NUI --> BD;
```

Shows logical relationships between ideas in complex situations

© 2018 ProFMI. All rights reserved. Module 1, Section 5 15

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Tree Diagram

```
graph LR; EPR[EM plan revision] --> AT[Assemble team]; EPR --> RP[Review plan]; EPR --> AR[Assess risks]; AT --> O[Objectives]; AT --> S[Schedule]; RP --> A[Audit]; RP --> I[Interviews]; AR --> NR[New regs]; AR --> INS[Insurer];
```

Maps complex processes from start to lowest level of task or requirement

© 2018 ProFMI. All rights reserved. Module 1, Section 5 16

ProFM™ Credential Program ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE ProFM™
CREDENTIAL

Prioritization Matrix

	Factors					Total
	Cost	Staff size	Staff training	Safety record	Sustainability program	
Weight	2x	1x	1x	2x	1x	
Supplier A	3	2	4	3	4	22
Supplier B	2	3	3	3	4	20
Supplier C	2	3	2	3	1	16
Supplier D	1	2	1	3	0	11

Used to rate various options based on set criteria

© 2018 ProFMI. All rights reserved. Module 1, Section 5 17

ProFM™ Credential Program ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE ProFM™
CREDENTIAL

Matrix Data Analysis

Compares a group of items against two variables

© 2018 ProFMI. All rights reserved. Module 1, Section 5 18

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Activity Network Diagram

```
graph LR; Start((Start)) --> A((A)); A --> B((B)); A --> D((D)); B --> C((C)); D --> Finish((Finish)); C --> Finish
```

- Maps the steps in project completion, highlighting dependent relationships
- Can be used to estimate project duration

© 2018 ProFMI. All rights reserved. Module 1, Section 5 19

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Process Decision Program Chart

```
graph LR; Root[New self-service call desk] --- T1[Select vendor.]; Root --- T2[Communicate changes.]; Root --- T3[Launch program.]; T1 --- R1[...]; T1 --- R2[...]; T2 --- R3[...]; T2 --- R4[...]; T3 --- T3_1[Occupants keep calling office.]; T3 --- T3_2[Occupants overwhelm maintenance with high-priority calls.]; T3 --- T3_3[Software does not perform as expected.]; T3_1 --- R5[Train.]; T3_2 --- R6[Train.]; T3_2 --- R7[Cross-charge.]; T3_3 --- R8[Conduct beta.];
```

Used to identify and manage risks

© 2018 ProFMI. All rights reserved. Module 1, Section 5 20

ProFM™ Credential Program ProFMI™
PROFESSIONAL FACILITY MANAGEMENT INSTITUTE ProFM™
CREDENTIAL

Cause-Effect Diagram

```

    graph LR
      NewCarpeting[New carpeting] --> Outgassing[Out-gassing]
      OccupancyChange[Occupancy change] --> InsufficientFreshAir[Insufficient fresh air]
      HVACMalfunction1[HVAC malfunction] --> InsufficientFreshAir
      BlockedDucts[Blocked ducts] --> CO2Increase[CO2 increase]
      HVACMalfunction2[HVAC malfunction] --> CO2Increase
      Flicker[Flicker] --> Lighting[Lighting]
      ImproperLevels[Improper levels] --> Lighting
      Outgassing --> Headaches[Occupant-reported headaches]
      InsufficientFreshAir --> Headaches
      CO2Increase --> Headaches
      Lighting --> Headaches
  
```

- Also known as Ishikawa or fishbone chart
- Used to identify potential causes of a problem

© 2018 ProFMI. All rights reserved. Module 1, Section 5 21

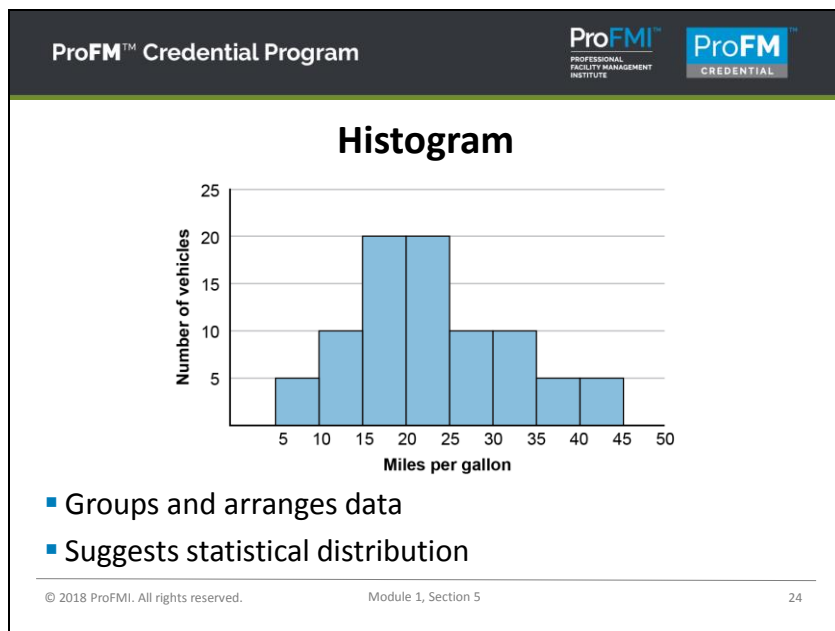
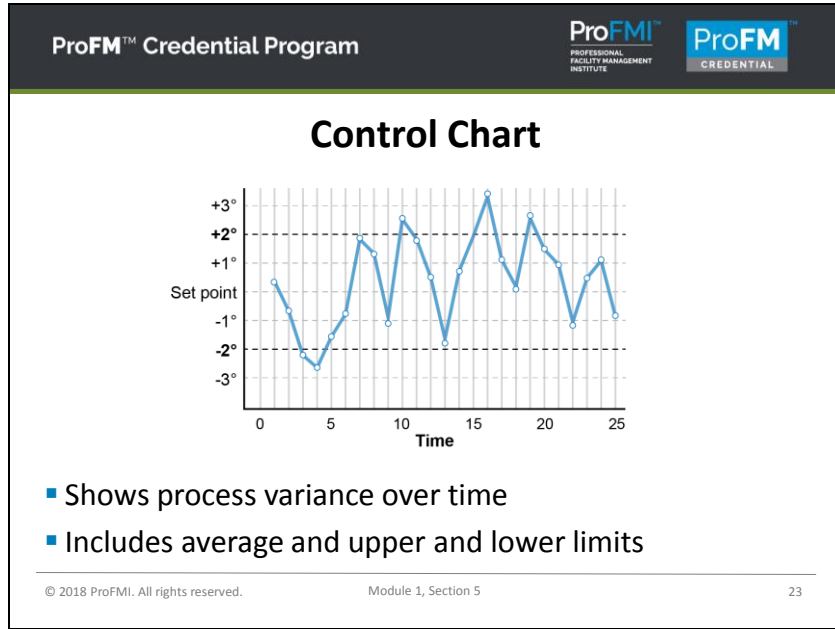
ProFM™ Credential Program ProFMI™
PROFESSIONAL FACILITY MANAGEMENT INSTITUTE ProFM™
CREDENTIAL

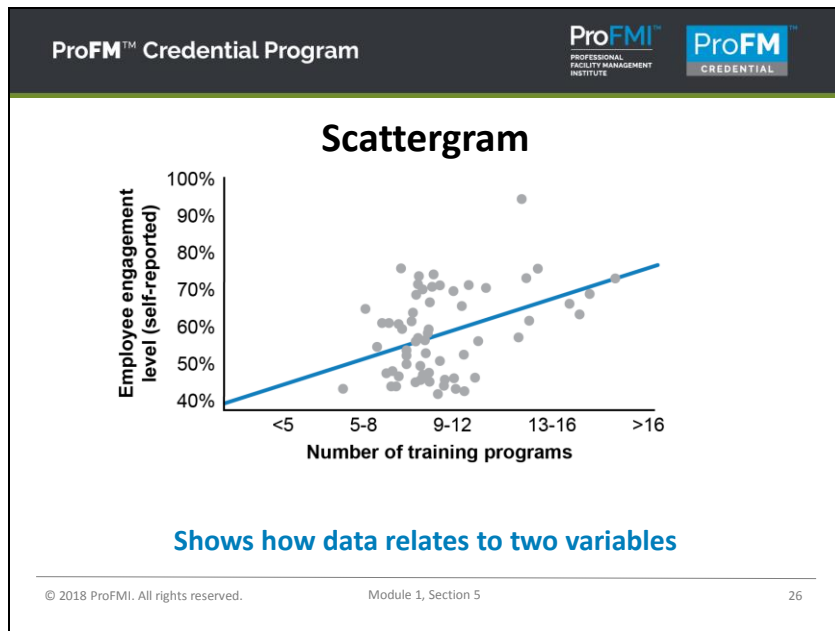
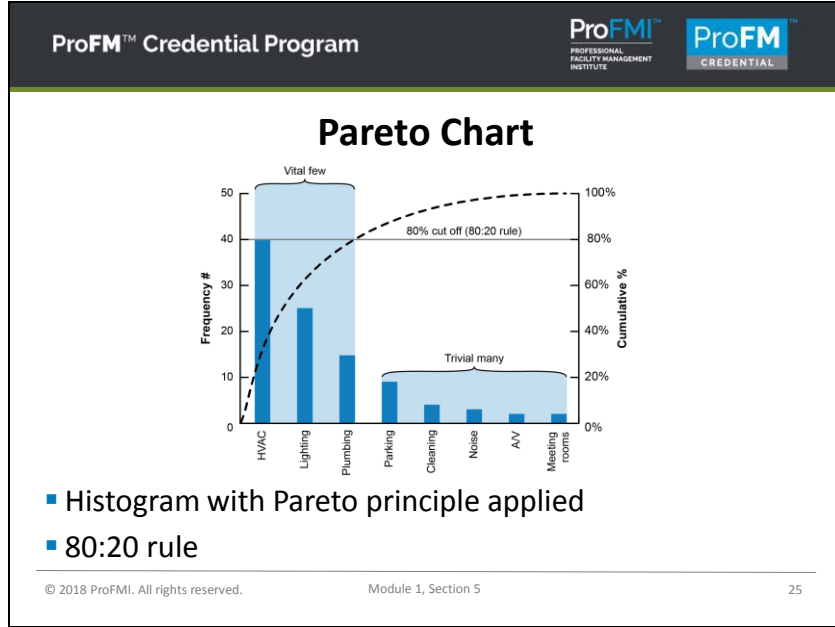
Check Sheet

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Building A	1		1			2				1		2	7
Building B	3		1	1		2		1			1	1	10
Building C	8	7	8	9	6	10	12	12	10	9	8	8	107
Building D	2	4	2	3	2	1	4	3	1	2	1		25
Total	14	11	12	13	8	15	16	16	11	12	10	11	149

Captures and sorts data about a condition or process

© 2018 ProFMI. All rights reserved. Module 1, Section 5 22





ProFM™ Credential Program

ProFMI™ PROFESSIONAL FACILITY MANAGEMENT INSTITUTE

ProFM™ CREDENTIAL

Flowchart

- Diagram of process
- Shows start, steps/tasks, decision points, consequences of decisions, end point

```

    graph TD
      Start[Employee requests new ID card.] --> D1{Did employee lose card?}
      D1 -- Yes --> S1[Deactivate card in system.]
      S1 --> D2{Does system show card used since loss?}
      D2 -- Yes --> S2[Contact security.]
      D2 -- No --> D1
      D1 -- No --> D3{Has employee profile changed?}
      D3 -- Yes --> S3[What is change?]
      S3 --> S4[Profile info only]
      S4 --> S5[Revise profile.]
      S5 --> S6[Reissue card.]
      D3 -- No --> S7[Reissue card.]
      S3 --> S8[New access levels]
      S8 --> D4{Does emp.'s dept. confirm change?}
      D4 -- Yes --> S9[Reissue card.]
      D4 -- No --> S10[Contact FM director. Do not reissue card.]
    
```

© 2018 ProFMI. All rights reserved. Module 1, Section 5 27

ProFM™ Credential Program

ProFMI™ PROFESSIONAL FACILITY MANAGEMENT INSTITUTE

ProFM™ CREDENTIAL


Run Chart

Month	Number of Injuries
Jan.	2
Feb.	4
Mar.	1
Apr.	0
May	2
June	2
July	3
Aug.	4
Sept.	4
Oct.	3
Nov.	5
Dec.	5
Jan.	6
Feb.	6
Mar.	4
Apr.	7
May	7
June	8
July	9
Aug.	8
Sept.	7
Oct.	8
Nov.	8
Dec.	7

- Data points for specific time periods
- Line illustrating trend over time

© 2018 ProFMI. All rights reserved. Module 1, Section 5 28

ProFM™ Credential Program ProFMI™ PROFESSIONAL FACILITY MANAGEMENT INSTITUTE ProFM™ CREDENTIAL

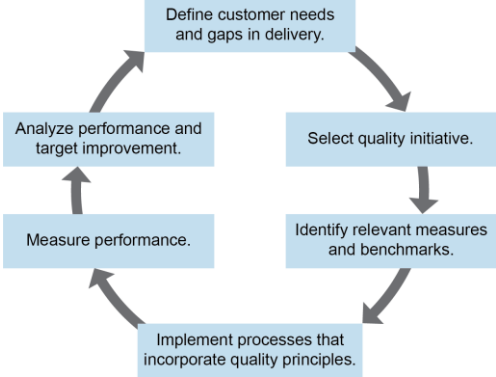
 **Discussion Question**

You are tasked with providing estimates for the remaining life span of the generators at your hospital campus. What chart will best illustrate the grouping of generators by hours of usage so that you can begin to estimate how many generators will need to be replaced in the next year?

© 2018 ProFMI. All rights reserved. Module 1, Section 5 29

ProFM™ Credential Program ProFMI™ PROFESSIONAL FACILITY MANAGEMENT INSTITUTE ProFM™ CREDENTIAL

Delivering Quality FM



```
graph TD; A[Define customer needs and gaps in delivery.] --> B[Select quality initiative.]; B --> C[Identify relevant measures and benchmarks.]; C --> D[Implement processes that incorporate quality principles.]; D --> E[Measure performance.]; E --> F[Analyze performance and target improvement.]; F --> A;
```

© 2018 ProFMI. All rights reserved. Module 1, Section 5 30

ProFM™ Credential Program ProFMI™ PROFESSIONAL FACILITY MANAGEMENT INSTITUTE ProFM™ CREDENTIAL

Define Customer Needs and Delivery Gaps

<p>Internal customers may include:</p> <ul style="list-style-type: none">▪ Occupants and department managers.▪ Facility management staff.▪ Management.	<p>External customers may include:</p> <ul style="list-style-type: none">▪ Visitors.▪ Vendors.▪ Tenants.
---	---

Remember: Differentiate between purchasers and end users when determining needs.

© 2018 ProFMI. All rights reserved. Module 1, Section 5 31

ProFM™ Credential Program ProFMI™ PROFESSIONAL FACILITY MANAGEMENT INSTITUTE ProFM™ CREDENTIAL

Customer Expectations and Perceptions of FM Delivery

Difference of expectations and perceptions creates a service gap.

Be aware of customer's sense of:

- Why service is needed.
- How necessary it is.
- How important it is to customer's job.
- What service should provide.
- How much service should cost.
- How much risk is associated with customer's choice of using FM.

© 2018 ProFMI. All rights reserved. Module 1, Section 5 32

ProFM™ Credential Program ProFMI™ PROFESSIONAL FACILITY MANAGEMENT INSTITUTE ProFM™ CREDENTIAL

Select Quality Initiative

Initiatives are prioritized according to:


- Alignment with facility or business strategy.
- Alignment with customer needs or expectations.
- Cost-benefit analysis.
- Likelihood of making impact.
- Opportunity to develop staff core competencies.

© 2018 ProFMI. All rights reserved. Module 1, Section 5 33

ProFM™ Credential Program ProFMI™ PROFESSIONAL FACILITY MANAGEMENT INSTITUTE ProFM™ CREDENTIAL

Identify Relevant Metrics and Benchmarks

- Collect measurements during service delivery.
- Use maintenance scorecard, including:
 - ✓ Backlog levels.
 - ✓ System downtime/uptime.
 - ✓ Work distribution.
 - ✓ Interrupted/incomplete work.
 - ✓ Percentage of work completed.
 - ✓ Costs saved.
 - ✓ Repair/replace decision management.
 - ✓ Inventory control.



© 2018 ProFMI. All rights reserved. Module 1, Section 5 34


ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Implement Processes That Incorporate Quality Principles

- Collaboration with contractors
- Fact-based decision making
- Innovative and sustainable solutions




© 2018 ProFMI. All rights reserved. Module 1, Section 5 35

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

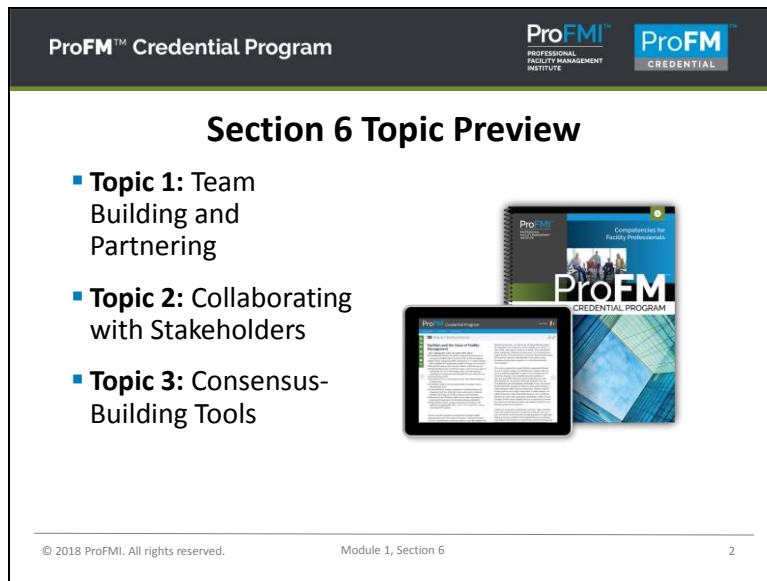
ProFM™
CREDENTIAL

Questions?



© 2018 ProFMI. All rights reserved. Module 1, Section 5 36

Section 6: Collaboration



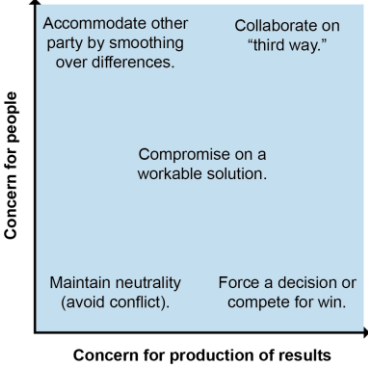
ProFM™ Credential Program

ProFMI™ PROFESSIONAL FACILITY MANAGEMENT INSTITUTE

ProFM™ CREDENTIAL

Collaboration

- Both conflict resolution method and process for working together
- Does not occur in every situation
- Finds novel solution that accommodates more parties' goals
- Requires hard work by all parties



© 2018 ProFMI. All rights reserved. Module 1, Section 6 3

ProFM™ Credential Program

ProFMI™ PROFESSIONAL FACILITY MANAGEMENT INSTITUTE

ProFM™ CREDENTIAL

Elements of Successful Partnerships

Commitment	Clarity	Mutual respect	Responsibility
Mutual accountability	Collaborative mindset	Continuous improvement	Trust

© 2018 ProFMI. All rights reserved. Module 1, Section 6 4


ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Learn to Work Successfully in Your Environment

- Organization’s industry, culture, organizational structure, delegation and limits of authority, and roles and responsibility will affect your team.
- Job descriptions and organizational structure can be challenges to team building.



© 2018 ProFMI. All rights reserved. Module 1, Section 6 5

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Lead, Manage, and Clarify Goals

- Leadership and management skills are required to establish teams.
- Expect formal and informal challenges to management and leadership.

To combat challenges:


- Ensure top management support.
- Work to establish credibility.
- Use regular meetings to reinforce team goals and identity.

© 2018 ProFMI. All rights reserved. Module 1, Section 6 6

ProFM™ Credential Program ProFMI™ PROFESSIONAL FACILITY MANAGEMENT INSTITUTE ProFM™ CREDENTIAL


Promote Individual Benefits of Team Participation

- Engage team members early about fears and concerns.
- Assign roles and tasks that suit individuals' desires and skill sets.
- Assign incentives and goals based on individuals' values.



© 2018 ProFMI. All rights reserved. Module 1, Section 6 7

ProFM™ Credential Program ProFMI™ PROFESSIONAL FACILITY MANAGEMENT INSTITUTE ProFM™ CREDENTIAL




Discussion Question

What type of incentives or goals have you used in the past to motivate members of your team?

© 2018 ProFMI. All rights reserved. Module 1, Section 6 8

ProFM™ Credential Program ProFMI™ PROFESSIONAL FACILITY MANAGEMENT INSTITUTE ProFM™ CREDENTIAL

Constructive Personality Types




- **Encourager**
Champions good ideas and makes criticism seem constructive
- **Initiator**
Turns ideas into actions
- **Consensus builder**
Ensures that people weigh in on decisions
- **Harmonizer**
Finds common ground in areas of conflict
- **Clarifier**
Restates what others have said to validate team comprehension
- **Gatekeeper**
Prevents hasty decisions by ensuring due diligence
- **Researcher**
Asks questions and looks for internal and external information
- **Educator**
Educates teams on lessons learned, objective facts, and benchmarking information

© 2018 ProFMI. All rights reserved. Module 1, Section 6 9

ProFM™ Credential Program ProFMI™ PROFESSIONAL FACILITY MANAGEMENT INSTITUTE ProFM™ CREDENTIAL

Disruptive Personality Types

- Disruptive personalities can unravel teams and partnerships.
- Includes dominators, naysayers, and withdrawn or unfocused individuals.
- To mitigate disruptive personalities:
 - Partner them with an offsetting constructive personality.
 - Remove them from meetings or from the team.



© 2018 ProFMI. All rights reserved. Module 1, Section 6 10


ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Ground Rules

- Establish ground rules for how the team will operate.
- Rules should be set proactively.
- Rules must take organization's culture into account.




© 2018 ProFMI. All rights reserved. Module 1, Section 6 11

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL



Discussion Question

Ground rules are a good way to set the stage for a team to perform well, without unnecessary conflict. What are some of the most effective ground rules you have used when organizing a team?

© 2018 ProFMI. All rights reserved. Module 1, Section 6 12

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Tuckman's Team Life Cycle Model

Forming Storming Norming Performing Adjourning

- Leadership and management are required to move from step to step.
- Teams may regress if mismanaged.

© 2018 ProFMI. All rights reserved. Module 1, Section 6 13

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Keeping Teams in Performing Phase

- Pay attention to warning signs.
- Diagnose problem before solving.
- Engage team members regularly to identify issues.

© 2018 ProFMI. All rights reserved. Module 1, Section 6 14


ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Stakeholders

- **Stakeholders** are people or organizations that can affect, be affected by, or perceive themselves to be affected by a decision or activity.
- Can be internal or external



© 2018 ProFMI. All rights reserved. Module 1, Section 6 15

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Internal Stakeholders

- Manage internal stakeholder relationships closely.
- Committees may be the official authority for a given subject.
- Assume that you need to win over internal stakeholders.

© 2018 ProFMI. All rights reserved. Module 1, Section 6 16

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

External Stakeholders

- Indicate desire to work with external shareholders early to prevent relationships from becoming adversarial.
- Being in good standing with authorities can be valuable to gain needed approvals.

© 2018 ProFMI. All rights reserved. Module 1, Section 6 17

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Stakeholder Assessments

- Create a power/interest matrix to differentiate stakeholders by their level of power and interest.
- Use this to determine how to initially approach stakeholder interactions.

© 2018 ProFMI. All rights reserved. Module 1, Section 6 18

ProFM™ Credential Program ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE ProFM™
CREDENTIAL

Stakeholder Impact

Stakeholder	Job Description	Complaint Response Time	O&M Cost Reduction	System Downtime
Facility staff	x	x	x	x
Service providers	x			x
Employee union	x			
Human resources	x			
Customers		x		x
Landlord		x	x	x
Help desk		x		x
Controller			x	x

Used to identify which stakeholders will most likely want to collaborate on certain issues.

© 2018 ProFMI. All rights reserved. Module 1, Section 6 19

ProFM™ Credential Program ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE ProFM™
CREDENTIAL

Stakeholder Prioritization

Stakeholder	Help Rating (1–low to 5–high)	Harm Rating (1–low to 5–high)	Probability	Priority (help/harm sum x probability)
Facility staff	5	5	0.7	7.0
Employee union	3	5	0.5	4.0
Customers	3	3	0.6	3.6
Help desk	3	2	0.6	3.0
Landlord	5	2	0.4	2.8
Controller	3	2	0.5	2.5
Human resources	3	1	0.3	1.2
Service providers	1	2	0.4	1.2

- Create a chart that rates each stakeholder’s ability to help or harm the project and the probability of their acting.
- Next, determine how to best interact with stakeholders of high importance.



© 2018 ProFMI. All rights reserved. Module 1, Section 6 20

ProFM™ Credential Program  

Partnering Agreements

- Can be used with supply chain stakeholders to design collaboration into an agreement.
- Produce mutual satisfaction and interdependence for both organizations when successful.
- Require work from both organizations to jointly develop goals, objectives, strategies, and formal and informal lines of communication.

© 2018 ProFMI. All rights reserved. Module 1, Section 6 21



ProFM™ Credential Program  

Brainstorming

Brainstorming has **two phases**.

- **Generating ideas:**
 - Make as many suggestions as possible in allotted time period.
 - No one is allowed to criticize or comment on suggestions at this point.
- **Narrowing down ideas:**
 - Build on an idea to make it better.
 - Suggest the flaws of an idea.



© 2018 ProFMI. All rights reserved. Module 1, Section 6 22

ProFM™ Credential Program  

Nominal Group Technique

- Describe an issue to the group and then have the members list potential solutions.
- Record all nonredundant ideas and then work to improve and build on them.
- Use a secret vote to rank ideas.
- Continue to discuss, refine, and vote on ideas as necessary until a solution is found.

© 2018 ProFMI. All rights reserved. Module 1, Section 6 23

ProFM™ Credential Program  

Delphi Technique

- Used to achieve consensus from a group of experts.
- Done remotely with several rounds of voting.
- Summary documents are created to follow up on continued areas of concern.
- Keeps participants from worrying about contradicting a more experienced or powerful colleague.

© 2018 ProFMI. All rights reserved. Module 1, Section 6 24

ProFM™ Credential Program

ProFMI™ PROFESSIONAL FACILITY MANAGEMENT INSTITUTE

ProFM™ CREDENTIAL

Mind Maps

- Begin with central topic and branch into different subcategories.
- Help identify how various parts of issue are related.

© 2018 ProFMI. All rights reserved. Module 1, Section 6 25

ProFM™ Credential Program

ProFMI™ PROFESSIONAL FACILITY MANAGEMENT INSTITUTE

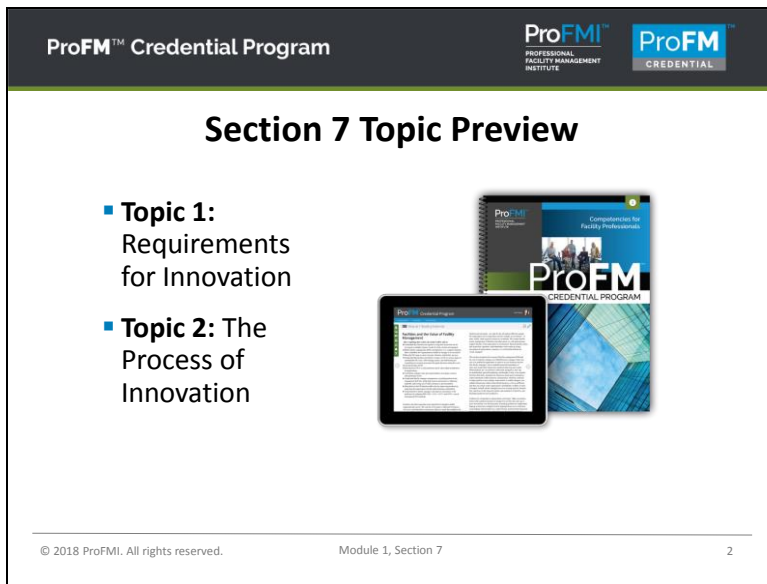
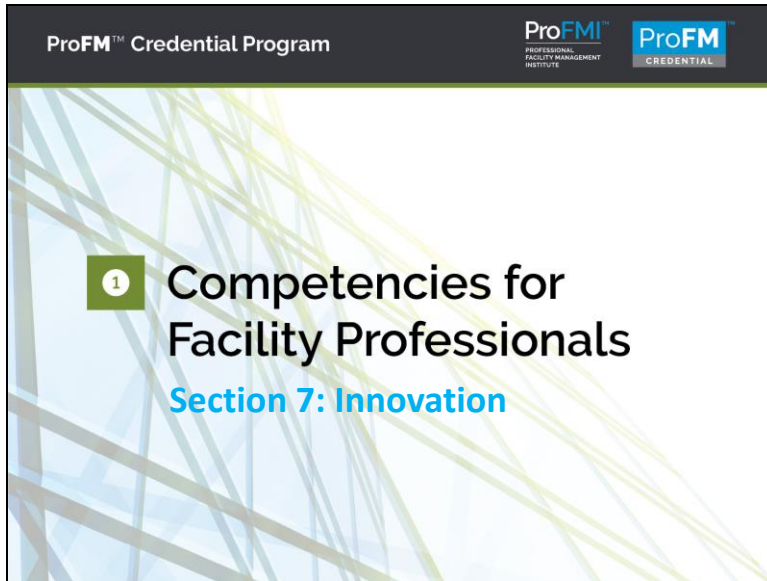
ProFM™ CREDENTIAL

Discussion Question

Different situations call for different consensus-building tools. What are some situations in which you have applied the tools we've covered? How effective were the tools in those situations?

© 2018 ProFMI. All rights reserved. Module 1, Section 6 26

Section 7: Innovation



ProFM™ Credential Program ProFMI™ PROFESSIONAL FACILITY MANAGEMENT INSTITUTE ProFM™ CREDENTIAL

Innovation in FM

- Involves discovering ways to increase effectiveness and efficiency.
- Often results from repurposing existing technology.
- Results-oriented.

Innovation as a competency involves:
Seeing connections.
Sensing new solutions.
Reframing information or situations.
Constant curiosity.
Lack of fear about future and unknown.
Willingness to change.

© 2018 ProFMI. All rights reserved. Module 1, Section 7 3

ProFM™ Credential Program ProFMI™ PROFESSIONAL FACILITY MANAGEMENT INSTITUTE ProFM™ CREDENTIAL

Types of Innovation


- **Sustaining innovation**
 - Works to improve on what organization is already doing
 - Occurs close to center of action
- **Breakthrough innovation**
 - Reframes problem in new way to suggest new solutions
 - Occurs at leadership or team level
- **Disruptive innovation**
 - Sees that what has worked in past doesn't fit current situation
 - Driven downward from organizational leadership
- **Preparing the ground**
 - Begins with awareness of new tools and processes without defined uses
 - Applicable at all levels of organization

© 2018 ProFMI. All rights reserved. Module 1, Section 7 4

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL



Discussion Question

Which of the types of innovation would originate only from a member of the organizational leadership team?

© 2018 ProFMI. All rights reserved. Module 1, Section 7 5

ProFM™ Credential Program



ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Challenges to Innovation

- Lack of time, space, funding, competencies, motivation, and courage
- Poor understanding of requirements of innovation
- Inadequate transparency
- Contracts or agreements that don't accommodate innovation
- Silo mentality inhibiting collaboration
- Growing areas of responsibilities overshadowing FM expertise

© 2018 ProFMI. All rights reserved. Module 1, Section 7 6

ProFM™ Credential Program  



Strategy

Use the added value of innovation to create team performance objectives.

Added Value of Innovation

- Increases in quality of service
- Reduced operating costs
- Elimination of unnecessary travel
- Improved occupant work satisfaction
- More efficient use of facility resources
- Improved FM staff job satisfaction
- Improved workplace health and safety measures
- Improved sustainability performance

© 2018 ProFMI. All rights reserved. Module 1, Section 7 7

ProFM™ Credential Program  

Structure

- Supporting innovation requires supportive organizational structure.
- Leadership must provide resources.
- Structural integration and free-flowing communication are keys to innovative organizations.

© 2018 ProFMI. All rights reserved. Module 1, Section 7 8


ProFM™ Credential Program ProFMI™ PROFESSIONAL FACILITY MANAGEMENT INSTITUTE ProFM™ CREDENTIAL

Processes and Culture

- Successful organizations have clear processes of innovation.
- Organizational culture encourages the behaviors needed for innovation:
 - Long-term dedication
 - Conscious risk taking
 - Collaboration
 - Willingness to try new ideas

© 2018 ProFMI. All rights reserved. Module 1, Section 7 9

ProFM™ Credential Program ProFMI™ PROFESSIONAL FACILITY MANAGEMENT INSTITUTE ProFM™ CREDENTIAL



Discussion Question

How is the organization you work for set up to support innovation?

© 2018 ProFMI. All rights reserved. Module 1, Section 7 10

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Personal Requirements

Five skills essential to innovation:

- Associating
- Questioning
- Observing
- Experimenting
- Networking



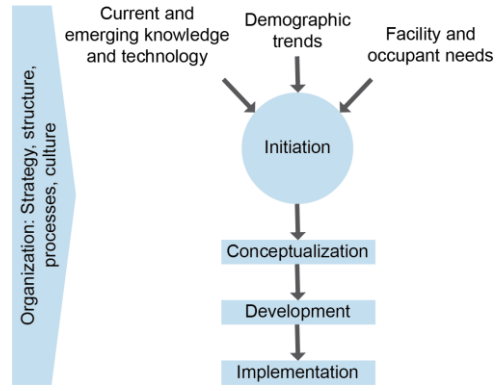
© 2018 ProFMI. All rights reserved. Module 1, Section 7 11

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Innovation Model



Organization: Strategy, structure, processes, culture

Current and emerging knowledge and technology

Demographic trends

Facility and occupant needs

Initiation

Conceptualization

Development

Implementation

© 2018 ProFMI. All rights reserved. Module 1, Section 7 12

ProFM™ Credential Program

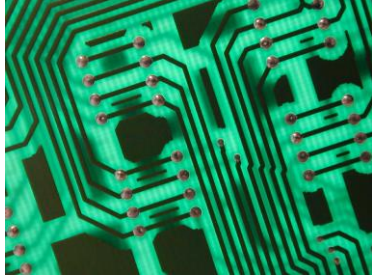
ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Initiation

Spark for innovation may come from:

- Facility and occupant needs.
- Demographic trends.
- New and emerging knowledge and technology.



© 2018 ProFMI. All rights reserved. Module 1, Section 7 13

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Conceptualization

- Team considers innovative idea or opportunity.
- Possible ideas are proposed.
- Team prioritizes most promising, seeks management support.



© 2018 ProFMI. All rights reserved. Module 1, Section 7 14

ProFM™ Credential Program

ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Development and Implementation

- During development, concept is elaborated and prototype is tested and refined.
- If test is successful, concept is adopted.
- Following adoption, innovation is reassessed for effectiveness.

© 2018 ProFMI. All rights reserved. Module 1, Section 7 15

ProFM™ Credential Program

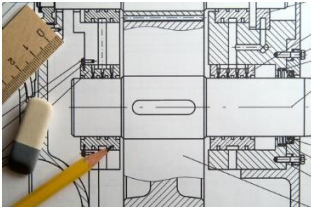
ProFMI™
PROFESSIONAL
FACILITY MANAGEMENT
INSTITUTE

ProFM™
CREDENTIAL

Innovation in Facility Management

Examples to create value:

- Sustainability initiatives
- Power over Ethernet (POE) to improve customer service—integrating reservation systems, HVAC, and occupancy sensors
- Drones to collect data
- Assisting travelers with disabilities
- Designing for changing environment



© 2018 ProFMI. All rights reserved. Module 1, Section 7 16
