



U.S. General Services Administration

Professional Development for Federal Buildings Personnel

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FBPTA: What is required?

- Core Competencies for Federal buildings Personnel
- Recommended Curriculum and Continuing Education
- Annual updates to Competencies and Curriculum
- Compliance by all Federal buildings personnel
- Method for contractor compliance

“...core competencies ...relating to building operations and maintenance, energy management, sustainability, water efficiency, safety (including electrical safety) and building performance measures.”

FBPTA: Why?

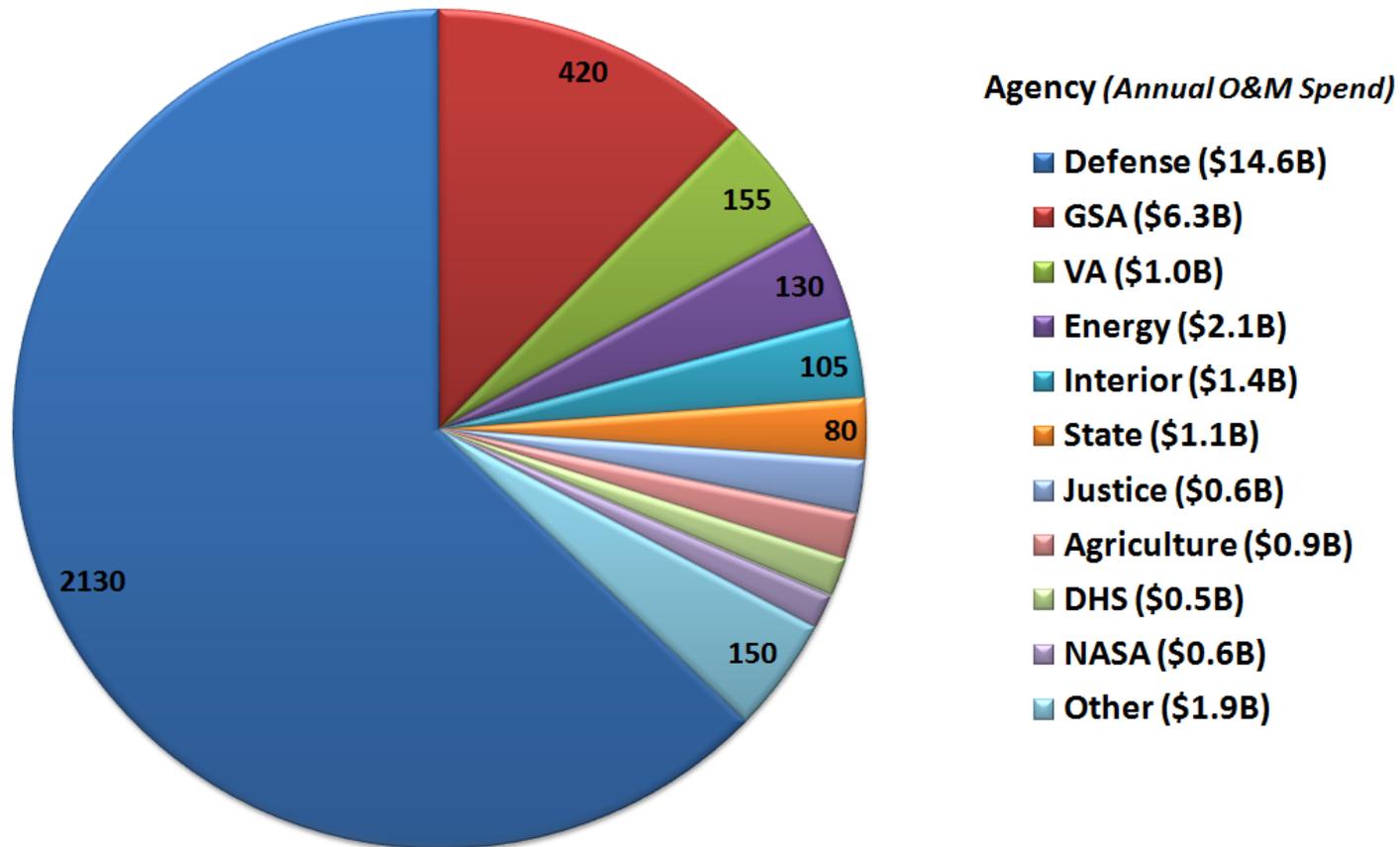
Perhaps \$2B / year in operational costs



FBPTA: Who?

Agency Share of Federal Footprint - Million SF

Federal Real Property Profile



Resources at FMI.gov

FACILITIES MANAGEMENT INSTITUTE
ACCELERATE FM



Guide long-term professional development

**What do I need to know?
How well do I know it?
What resources can help me?**

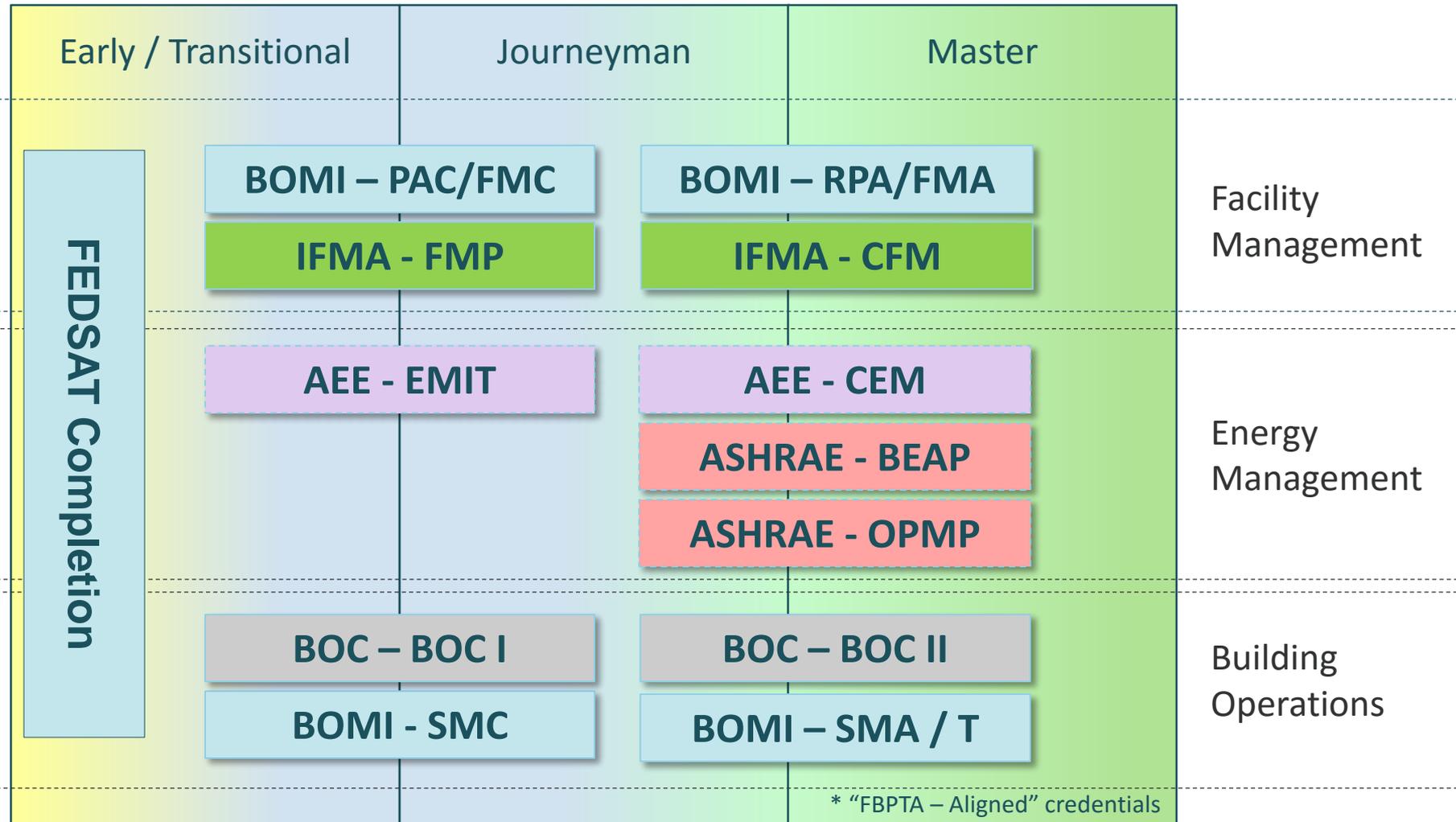
FEDSAT

Helping your agency comply with the Federal
Buildings Personnel Training Act of 2010

[Learn More](#)

Identify and fill basic knowledge gaps

FBPTA: Compliance and general career paths



FEDSAT: Identify gaps and find free training



FEDSAT



My Dashboard

Thank you for logging in with FEDSAT here at SFTool. You are ready to view your dashboard. From there you can begin or continue an assessment, access user guide information, link your account with FMI to gain credit towards your assessment, and more.

[View Dashboard](#)

FMI 2.0 - Learning Builder

The General Services Administration (GSA) Office of Government-wide Policy (OGP) developed the Facilities Management Institute (FMI) as a "cloud institute" to help federal facility managers fulfill the FBPTA requirements.

[Visit FMI](#)

Live! – <https://sftool.gov/fedsat>

FEDSAT: Guide to critical parts of the FBPTA



FEDSAT



Dashboard

Select a Competency Area

42%

0% FMI CREDIT

Facilities Operations and Maintenance

Learning Resources | Related Competencies



In Progress

18%

0% FMI CREDIT

Facilities Management Technology

Learning Resources | Related Competencies



In Progress

0%

Energy Management

Learning Resources | Related Competencies



Not Started

0%

Water Efficiency

Learning Resources | Related Competencies



Not Started

0%

Sustainability

Learning Resources | Related Competencies



Not Started

0%

Performance Measures

Learning Resources | Related Competencies



Not Started

Did You Know ?

Registering with FMI will apply credit for previously assessed competency areas to your FEDSAT assessment. Underneath your score on this page, you will see the credit you received, and you will not have to answer questions pertaining to those performance areas.

[Register with FMI](#)

FEDSAT: Guide to critical parts of the FBPTA



FEDSAT



Dashboard



Take Assessment



Getting Started

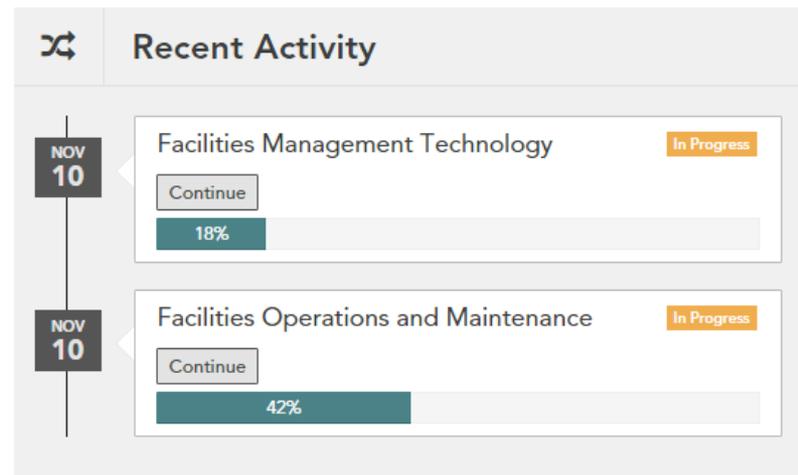
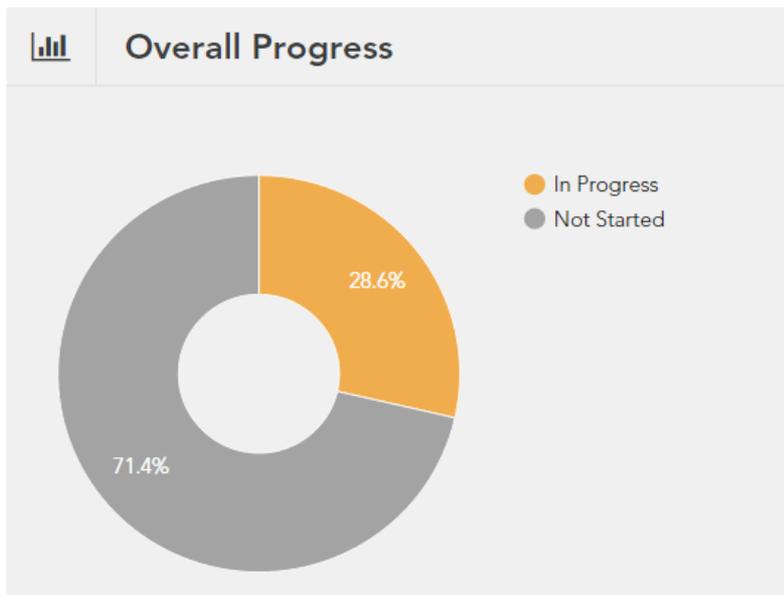


Resources

Coming Soon!



Earn FMI Credit



FEDSAT: Scenario-based learning



Demonstrate knowledge of key building performance measures, where and how to read them, and reporting requirements.

SCENARIO 12A

In an existing fifteen-year-old, twenty-story office building, the lighting system throughout the tenant floors has been targeted for energy reduction strategies. The goal is to reduce energy used by the lighting systems by 35% over the next three years without increasing glare and occupant discomfort. The existing lighting in the tenant floors is an even distribution of 2x4 fluorescent light fixtures and 2x2 fluorescent light fixtures. The building is occupied by one agency. Staff members do intensive computer work in the open office areas of the floors. Managers in the enclosed offices do a variety of computer and paper-based tasks. The strategies being evaluated for energy reduction include a gradual (floor-by-floor) replacement of the fluorescent fixtures with LED fixtures; installation of daylight and vacancy sensors; and installation of task tuning control software in open office spaces.

QUESTION

In Scenario 12A, if the lighting system submeters for the entire building total a weekly energy usage of 22 kWh when the project starts, what is the monthly total usage being targeted at the end of 3 years?

Choose the best answer

Help

- 88 kWh/month
- 31 kWh/month
- 57.2 kWh/month
- 22 kWh/month

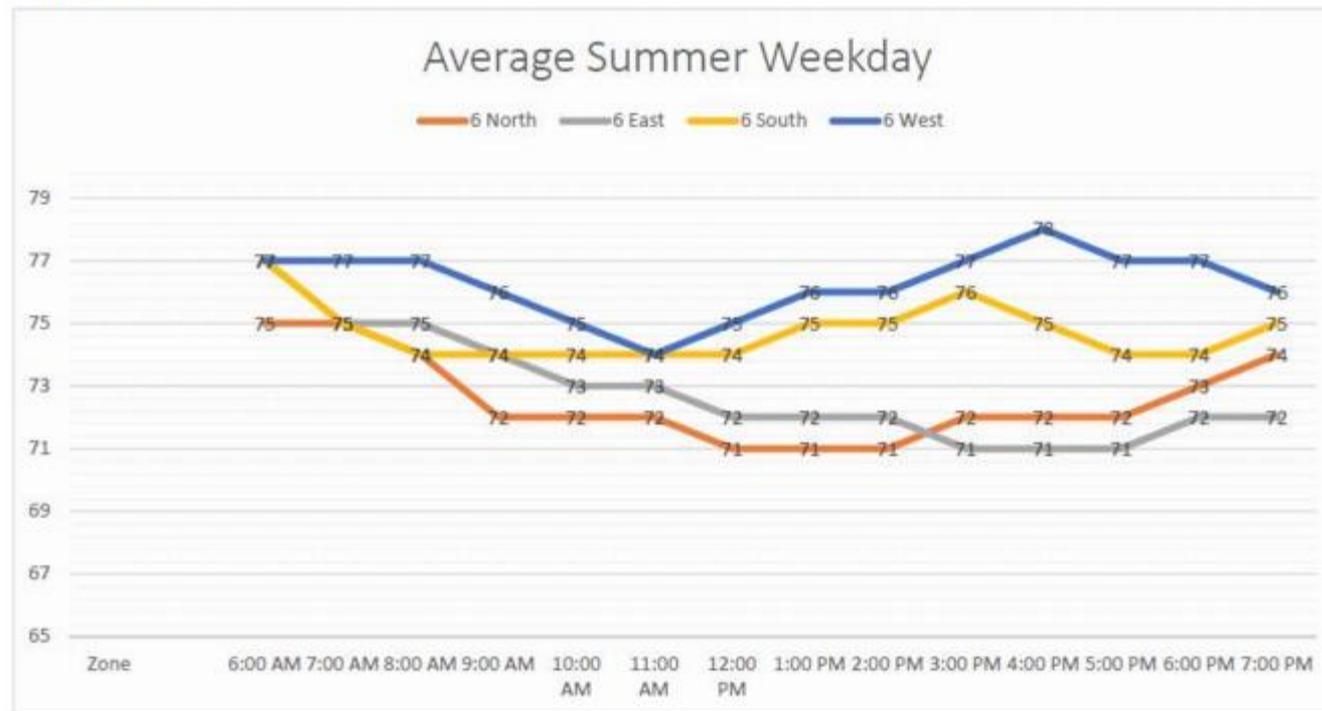
Submit Answer

FEDSAT: Scenario-based learning



Demonstrate knowledge of the effect that climate and variable environmental conditions can have on the building envelope and systems.

SCENARIO 1A



A six-story office building is located in downtown Miami, Florida. It was built in 2002. The building floor plate is rectangular, with a central core that includes circulation, restrooms, and mechanical spaces. The first floor contains building related services and common spaces, such as a lobby, security office, mechanical rooms, and restrooms. Each of the remaining five floors houses one or more departments all from the same organization, each with a mix of fully-enclosed offices and open workstation areas along with typical support spaces such as conference rooms and pantries. The exception is the tenant on the sixth floor, whose space includes a large training center capable of holding 100 people at

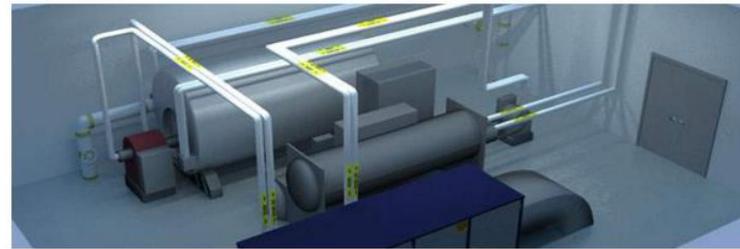
FEDSAT: Scenario-based learning



Demonstrate knowledge of FEMP's O&M Best Practices.

QUESTION 6 of 27

Weekly inspection of a boiler to look for and address cracks, leaks, or signs of wear on components is an example of



Choose the best answer

Help ?

preventative maintenance

reactive maintenance

proactive maintenance

redictive maintenance

Submit Answer

FEDSAT: Feedback and links to free training



[Dashboard](#) » [Competency Areas](#) » [Facilities Management Technology](#)



Summary

Facilities Management Technology



5/11 Correct - You're almost there! You need a passing score to complete this competency area. Please try the ones you missed again.

LEARNING RESOURCES

Technology Performance Exchange

National Renewable Energy Lab new tech performance data

Promising Technologies List

DoE slideshow on emerging technology

DoE Metering Guidance

Meter systems, approaches, process, best practices, and more

Advanced Electric Metering in Federal Facilities

FEMP E-learning course supporting FBPTA competency areas

Selecting and Evaluating New and Underused Energy Technologies

FEMP seminar supporting timely FBPTA competency area topics

Plug-in Electric Vehicle Handbook

Electric vehicle installation guide from DoE

Fire Protection Guide

WBDG overview, design, and recommendations on fire protection

FEDSAT: A world of resources



FEDSAT



[Dashboard](#) » [Competency Areas](#) » Learning Resources

The following learning resources are available to help you complete the assessment, fill in knowledge gaps, and better prepare you for running a highly efficient facility.

Facilities Operations and Maintenance

Demonstrate familiarity with building systems and knowledge of how they affect energy use.

Building Energy Use Breakdown

SFTool HVAC System Overview Page

Building and Energy Atmosphere Topics

SFTool building energy use topics

Planning an Energy Assessment for Federal Facilities

FEMP E-learning course supporting FBPTA competency areas

Demonstrate ability to monitor and evaluate how well building systems perform.

Small Building Retuning Resources

PNNL Retuning commercial Buildings Site

Commissioning for Existing Federal Buildings

FEMP E-learning course supporting FBPTA competency areas

Advanced Electric Metering in Federal Facilities

Competency Areas

Facilities Operations and Maintenance

Facilities Management Technology

Energy Management

Water Efficiency

Sustainability

Performance Measures

Leadership and Project Management

FEDSAT: A world of resources

 Prototype - 2015 learn plan explore procure practice assess share Log On

Free Continuing Education Credits

Below is a listing of **free** online courses providing continuing education credits. We are currently listing for the following organizations and credits:

*Levels: 100 – Introductory, 200 – Intermediate

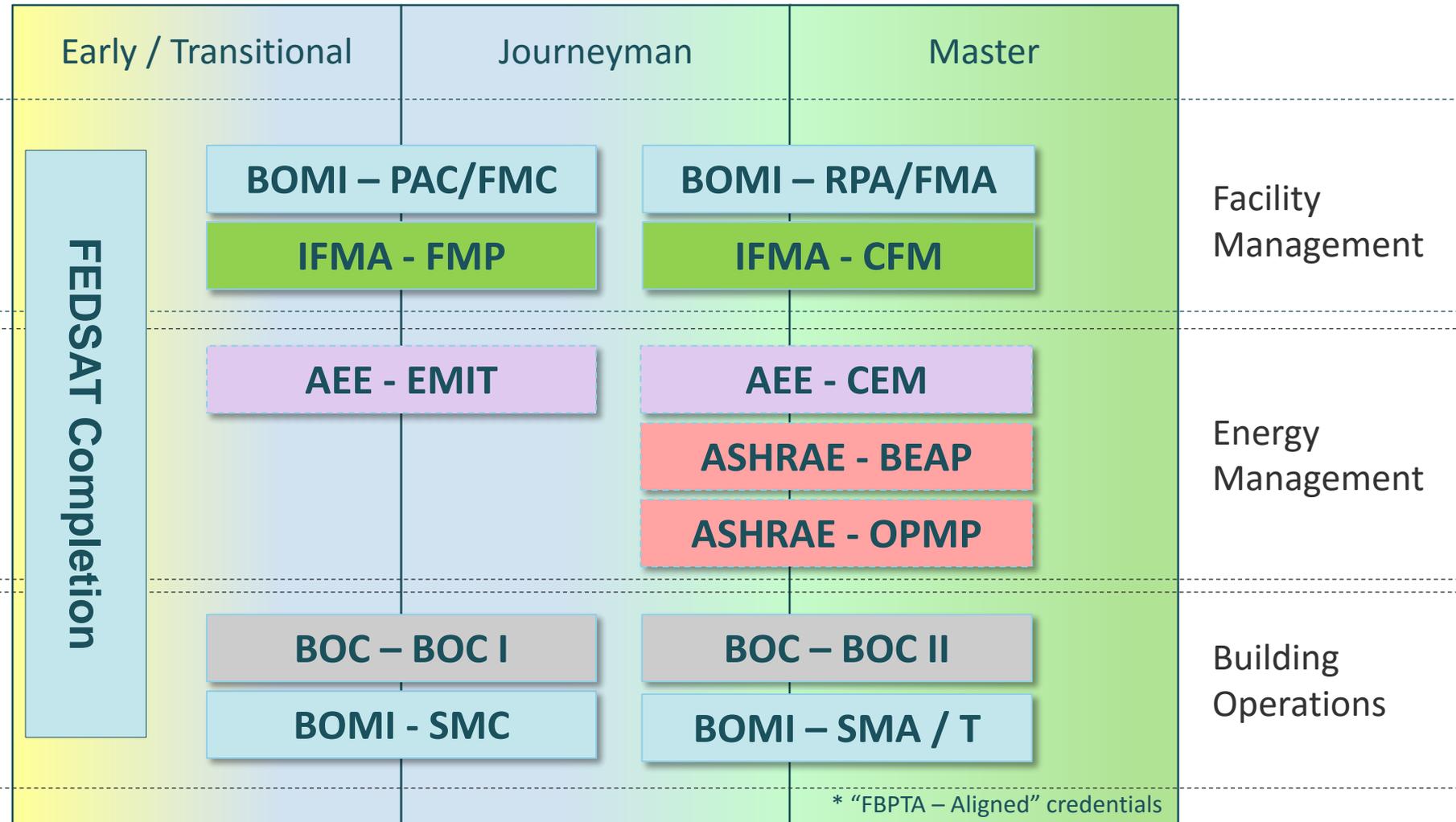
Course Title and Link	↑ Provider	AIA LUs	GBCI CE Hours	IACET CEUs
FEMP01 - Commissioning for Existing Federal Buildings	FEMP	4.5	4.5	0.5
FEMP02 - Planning an Energy Assessment for Federal Facilities	FEMP	4	4	0.5
FEMP03 - Launching a Utility Energy Services Contract (UESC): Getting to Yes!	FEMP	3		0.4
FEMP04 - Federal On-Site Renewable Power Purchase Agreements	FEMP	2.5		0.3
FEMP05a - Advanced Electric Metering in Federal Facilities	FEMP	3.5	3.5	0.4
FEMP06 - Managing Water Assessment in Federal Facilities	FEMP	3.5	3.5	0.4
FEMP07 - Selecting, Funding, and Implementing Photovoltaic Systems in Federal Facilities	FEMP	3.5	3.5	0.4
FEMP08 - Sustainable Institutional Change for Federal Facility Managers	FEMP	3	3	0.4
FEMP09 - Sustainable Strategies for Existing Federal Facilities	FEMP	3.5	3.5	0.4

Accelerate FM: Career professional development



Live! – <https://acceleratefm.us>

FBPTA: Compliance and general career paths



Conclusion

- Find resources for workforce development at www.fmi.gov
- Clear pathways to professional development
 - [FEDSAT](#) identifies gaps and provides free training resources
 - [Accelerate FM](#) identifies relevant industry credentials, degrees and other individual courses
- GAO – Act should require reporting, GSA to suggest how
- Contact information:
 - Brian Gilligan (FMI / FBPTA) – brian.gilligan@gsa.gov