



Professional Development for Federal Buildings Personnel Program Brief – April 28, 2015

Brian Gilligan, PE - GSA, Office of Federal High Performance Green Buildings





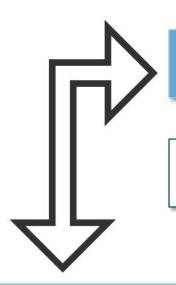
Requirements of the Act

- 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."

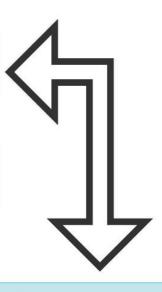


Who is involved in implementing?

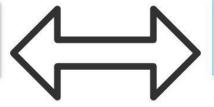


Facility Management Institute www.fmi.gov

- Maintain Core Competencies and Curriculum
- · Assistance developing agency targets



Agency Human Capital Office

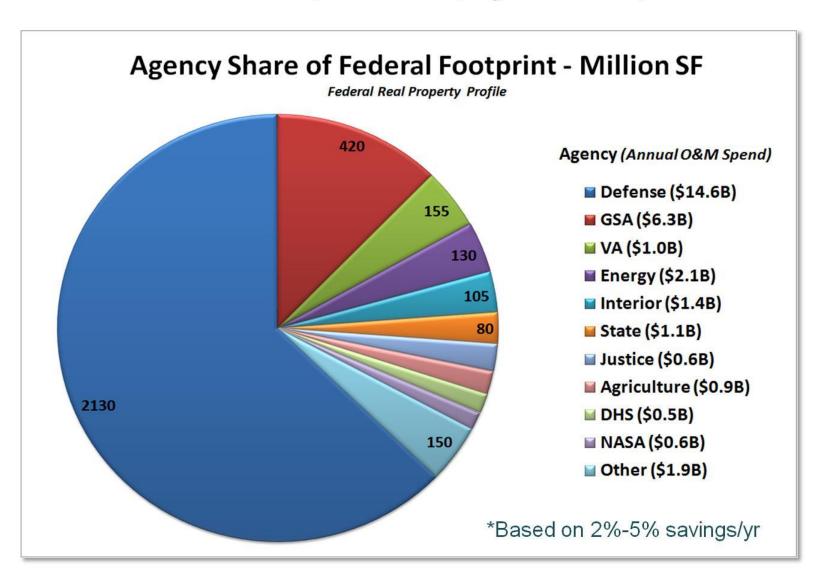


Agency Practitioners

- Apply consistent targets
- · Engage with Collective Bargaining Units
- Encourage guided professional development

- Assign consistent targets for positions
- Assess skills of personnel
- Align training with consistent targets

Who is Impacted (by FRPP)?





\$2 Billion in potential operational savings from an educated Federal FM Workforce



The FBPTA Core Competencies

						FBPTA Competen	cy Mod	el						
Comp Area		FM	EM	Ops	comp	Core Competency (43)	FM	EM	Ops	Comp Area	Core Competency (43)	FM	EM	Ор
1. Management of Facilities O&M				5. Safety					10. Business, Budget and Contracting					
	Building Systems					Basic Requirements					Total Cost of Ownership			
	Building Interior				1	Infrastructure					Life Cycle Assessment			
	Building Exterior					Contractor Programs					Contracting			
	Other Facility Systems					Occupant Interface					Budget Formulation			
2. Performance of Facilities O&M				6. Design				11. Leadership and Innovation						
	HVAC					Planning					Communication			
	Electrical / Plumbing					Infrastructure					Personnel			
Life Safety			7. Sus	7. Sustainability					Innovation					
	General Building					Regulations and Reqs					Enterprise Knowledge			
	Best Practices					Implementation				12. Pe	erformance Measures			
3. Technology				8. Water Efficiency						FBPTA				
	Technology Solutions					Regulations, Goals					Acquiring Data			
	Building Automation					Water Audits					Implementation			
Maint Management				9. Project Management								100		
4. En	4. Energy Management					Initiate			Legend					
	Demand Reduction					Execute					Primary responsi	bility		
	Assess Initial Conditions					Closeout					Needs general fa	miliarity	/	
	Commissioning					Training					"Federally-Specif	ic" cont	ent	
	Coordinate with Utilities	1				·					Red Text High-priority, cos	t / effici	ency	
	Planning, and Project Mgt										 /a			



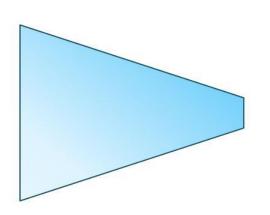




Better Buildings Workforce Guidelines

- SMEs built a Job Task Analysis for Federal Facility Manager
- NIBS crosswalked the JTA and FBPTA
- SMEs selected "high-priority" FBPTA Performances
- NIBS conducted a survey of 800+ feds to validate
- SMEs reviewed and interpreted feedback

12 Competency Areas232 Performances



9 Competency Areas

80 Performances



GSA - 2014 Assessment

Management of Facilities 0

Performance of Facilities

Busin

Percent of **Profile** Count Assessed Energy Management (GS09 and under) 7 0.6% Energy Management (GS 11-12) 38 3.3% Energy Management (GS 13-15) 20 1.8% Environmental Compliance (GS09 and under) 3 0.3% Environmental Compliance (GS 11-12) 15 1.3% Environmental Compliance (GS 13-15) 17 1.5% Fire Life Safety (GS09 and under) 0.1% 1 Fire Life Safety (GS 11-12) 14 1.2% Fire Life Safety (GS 13-15) 25 2.2% Lease Administration Manager (GS09 and under) 1.4% 16 2.5% Lease Administration Manager (GS 11-12) 29 Lease Administration Manager (GS 13-15) 0.2% Property Manager (GS09 and under) 63 5.5% Property Manager (GS 11-12) 662 58.0% 19.7% Property Manager (GS 13-15) 225 No Profile Selected 5 0.4% Total 1142 100%

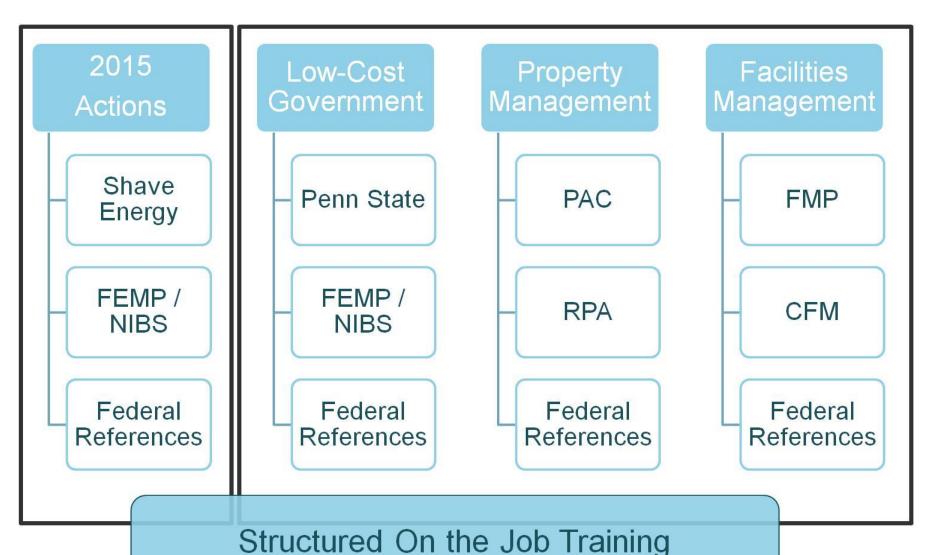
water eπiciency, safety (including electrical safety) and building performance measures."

90%

100%



Property Manager Development Tracks



9

Building Retuning at NCR: 7-20% Savings

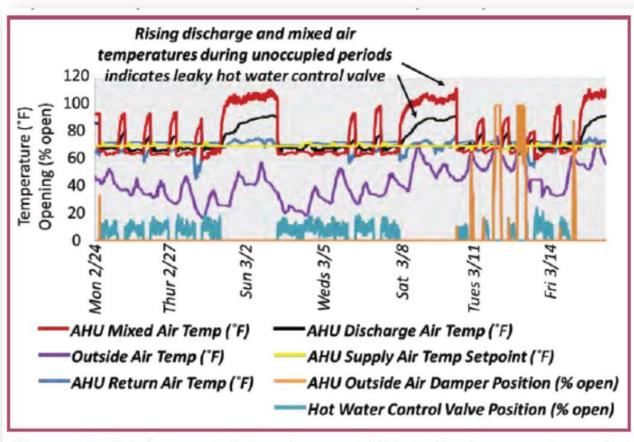
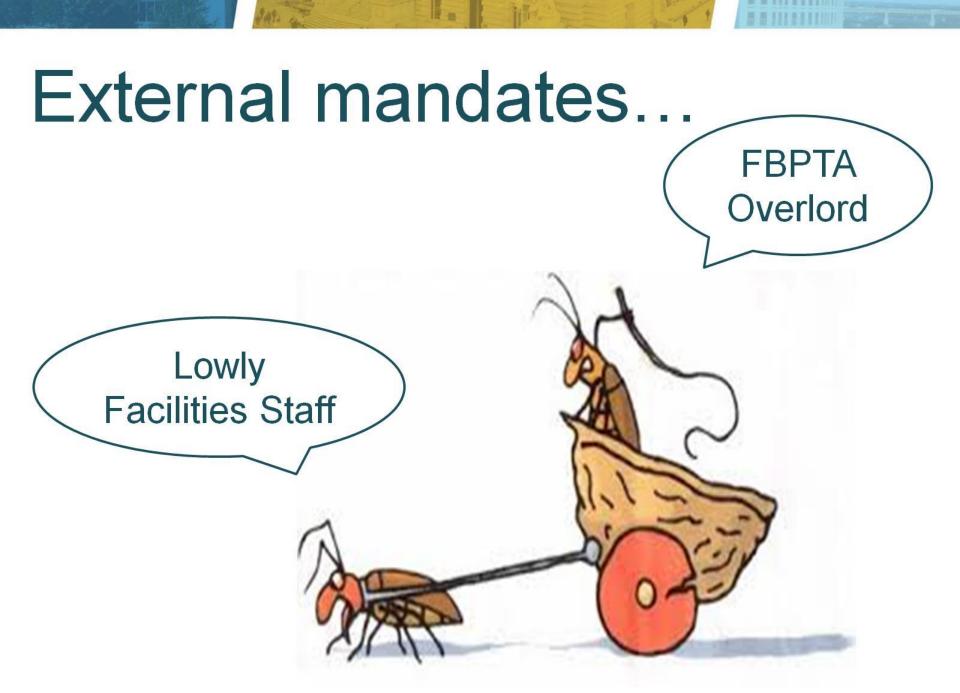


Figure 3. BAS trend data shows AHU-1 discharge air and mixed air temperature data

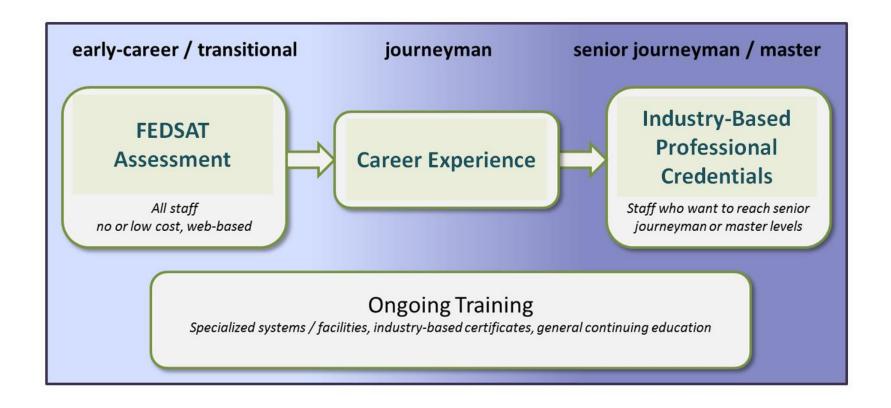


... become administrative obligations





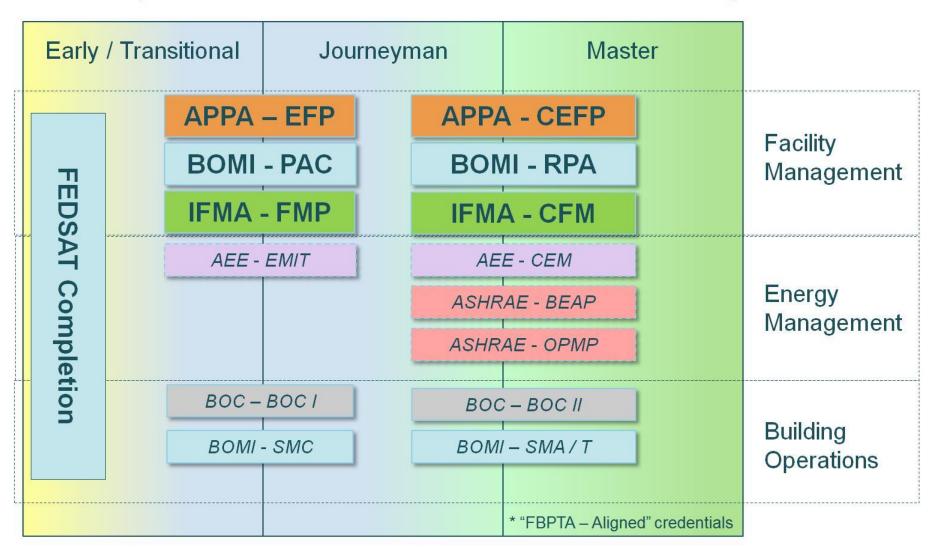
Addressing barriers to implementation



Cost, Complexity and Competing Approaches

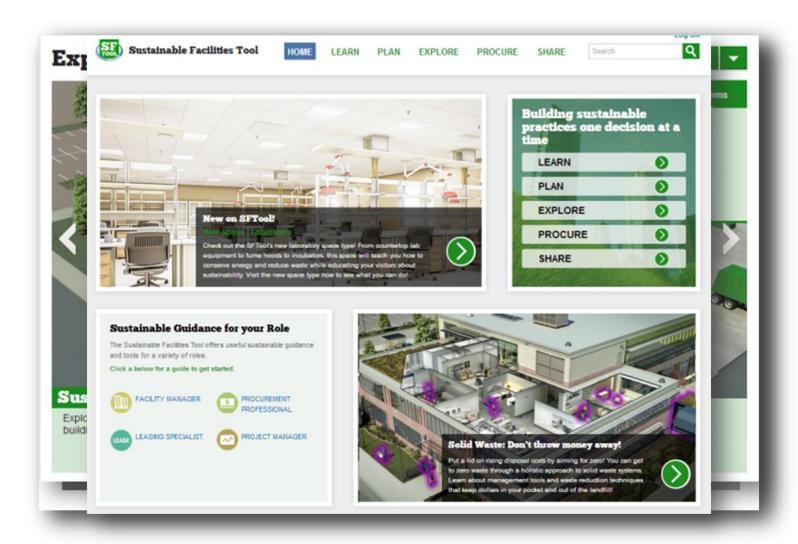


Compliance vs. Professional Development*



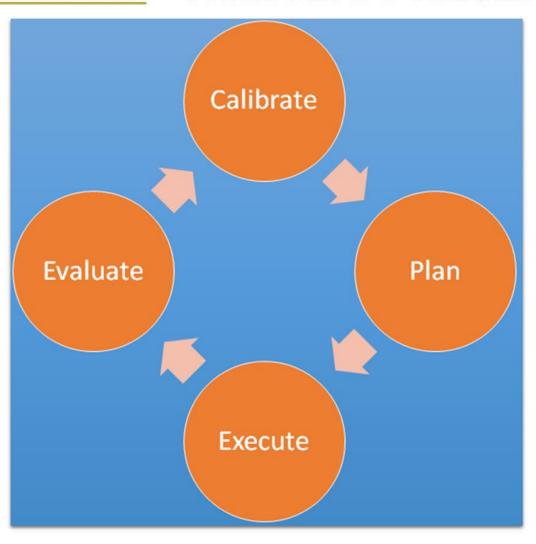


FEDSAT Assessment on SF Tool





Accelerate FM - Reflective Practice Model



Accelerate FM - Reflective Practice Model

- Agency assigns competencies and proficiency targets to positions
- Supervisor assesses proficiency level of staff members
- Individuals conduct self assessment
- Individuals identify own career priority areas
- Accelerate FM will suggest qualifications based on input
- Individuals create IDP based on recommendations

Coming May 2015 - www.fmi.gov

Showing 21 Qualifications, sorted by the number of proficiency gaps they close.

Compare	Performance Gaps		Title	Qualification Type	Provider	
	106		Certified Facility Manager (CFM)	Certification / Accreditation	IFMA	Select
	64	(2)	Real Property Administrator (RPA)	Certification / Accreditation	BOMI - International	Select
	61		Facility Management Professional (FMP)	Certification / Accreditation	IFMA	Select
	56		Facilities Management Administrator (FMA)	Certification / Accreditation	BOMI - International	Select
	40		Systems Maintenance Administrator (SMA)	Certification / Accreditation	BOMI - International	Select
	35		Operations And Performance Management Professional (OPMP) Certification	Certification / Accreditation	ASHRAE	Select
	31	(1)	Certified Measurement & Verification Professional (CMVP)	Certification / Accreditation	AEE - Association of Energy Engineers	Select
	31		Certified Plant Supervisor (CPS)	Certification / Accreditation	AFE - Association of Facility Engineers	Select
	30	(2)	LEED AP Operations & Maintenance (O+M)	Certification / Accreditation	USGBC	Select
	Solocted	ancol				

Compare Selected

Cancel

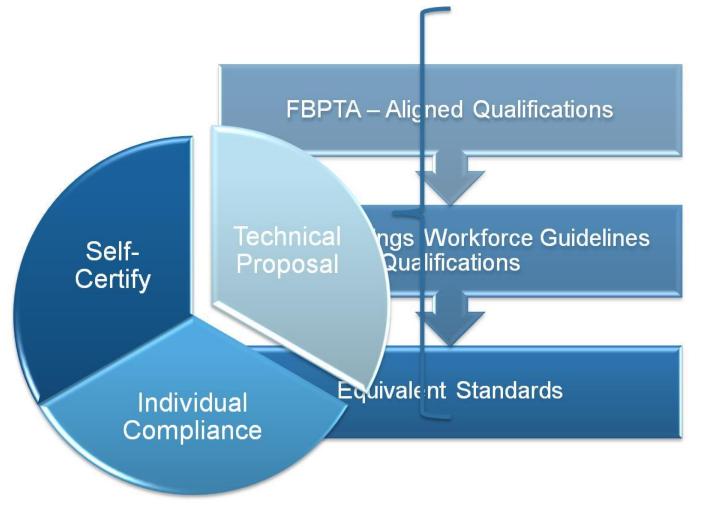
te

d

d

1

What can contractors do?





Conclusion

- 2014 Update and GSA Assessment are available at fmi.gov
- Clear pathways to professional development
 - Early / Transitional: <u>FEDSAT Assessment</u>
 - Journey / Master: Accelerate FM
- We will continue to review training in 2015
 - Focus on energy management and building operator resources
 - Seek opportunities for shared training (FAI, VA-FMS, other)
 - GSA can help develop position profiles and approach to training
- Contact information:
 - Brian Gilligan (FMI / FBPTA) <u>brian.gilligan@gsa.gov</u>
 - Maureen Roskoski (FEA) maureen.Roskoski@feapc.com