

Train and Hire Qualified Energy Staff

Better Buildings Summit Wednesday, May 11th 2016 3:45-5pm



Agenda: Questions We Will Address

- What are the Better Buildings Workforce Guidelines (BBWG)?
- How and why does a certification provider use BBWG?
- How do federal building owners use BBWG?
- How can private building owners use BBWG?
- What is the Certificate of Proficiency in Benchmarking?



Today's Presenters



Bill Kent, Association of Energy Engineers



Brian Gilligan, U.S. General Services Administration



Deane Evans, New Jersey Institute of Technology



Cody Taylor, U.S. Department of Energy (moderator)





Better Buildings Workforce Guidelines

Who are the skilled and qualified workers in advanced energy occupations?

Define Skills

Voluntary Better
Buildings Workforce
Guidelines, defined
by industry and
government

Verify

Third-party
accreditation of
certification or training
programs

Recognize

DOE recognition of accredited programs= consumer trust in program quality and workforce performance

CONFUSION

· CONFIDENCE





Job Categories Included

- Building Energy Auditor
- Building Commissioning Professional
- Energy Manager
- Building Operations Professional
- Facility Manager (federal focus)



RECOGNIZED PROGRAM

MEETS U.S. DEPARTMENT OF ENERGY GUIDELINES





A Government and Industry Partnership to Advance Commercial Workforce Quality



^{*}National Institute of Building Sciences





^{**}Commercial Workforce Credentialing Council

^{***} Building Energy Auditor; Building Commissioning Professional; Energy Manager; Building Operations Professional; Facility Manager (Government and FBPTA focus)

Workforce Development & Quality Professional Certification Programs

Bill Kent, Association of Energy Engineers



Workforce Development & Quality Professional Certification Programs

Why participate in BBWG process and seek ANSI Accreditation

Bill Kent, CEM
Program Director, AEE





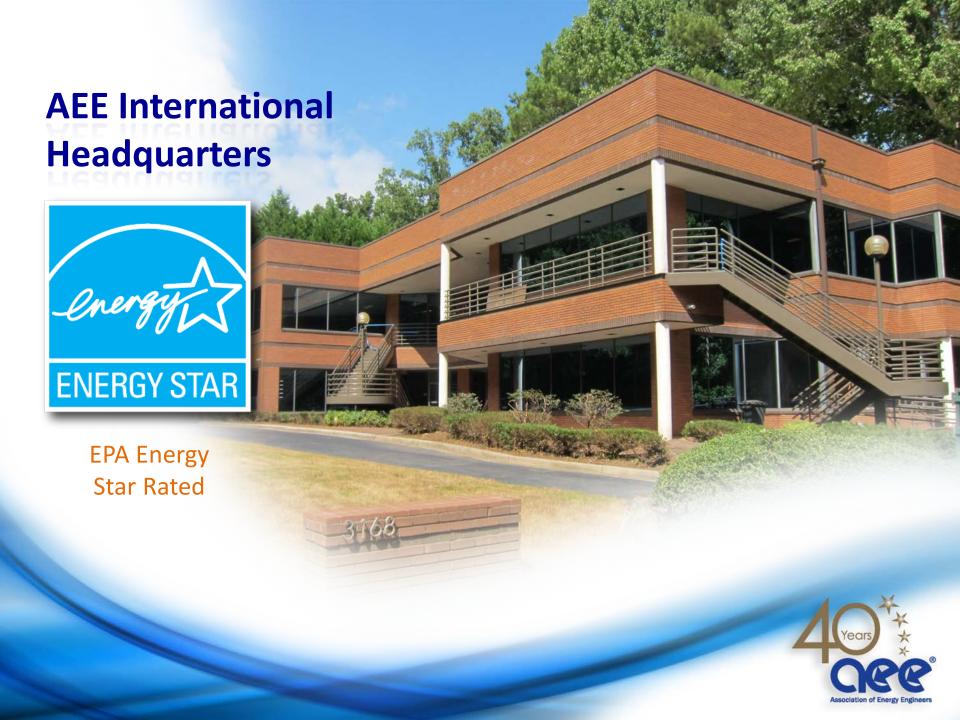
Who We Are...

AEE is a nonprofit organization of 18,000 members, a network of 96 local chapters in 98 countries.

"To promote the scientific and educational interests of those engaged in the energy industry and to foster action for sustainable development"

Asit Patel
AEE President 2016







AEE has certified over 15,500 Certified Energy Managers® (CEM®) and over 28,000 professionals in specialty energy areas.







The CEM® and CEA® programs are ANSI accredited and recognized under the Better **Buildings Workforce Guidelines.**

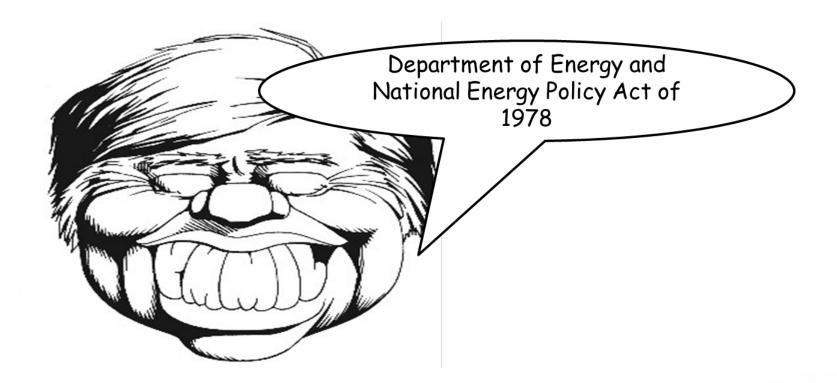




RECOGNIZED PROGRAM

MEETS U.S. DEPARTMENT OF ENERGY GUIDELINES









Why ANSI and BBWG?



















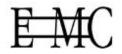
































Why ANSI?



- Adherence to a rigorous internationally recognized accreditation process ANSI/ISO/IEC/17024
- Published Job Task and Body of Knowledge, Certification Scheme
- Confirmation of competencies
- Fair and impartial administration of certification
- Independent assessment to standard





Why BBWG?



RECOGNIZED PROGRAM

Built upon a clear set of industry-developed guidelines

Common Certification Scheme and Job Task

Nationally recognized and consistent guidelines will reduce market confusion





Better Buildings Workforce Guidelines in the Federal Sector

Brian Gilligan, U.S. General Services Administration



Federal Workforce Legislation

Federal Buildings Personnel Training Act - FBPTA

"...core competencies ...relating to <u>building operations and maintenance</u>, <u>energy management, sustainability, water efficiency, safety (including electrical safety) and building performance measures</u>."

EO 13693 Planning for Federal Sustainability in the Next Decade

"...dedicated occupational series... roles that directly impact the achievement of Federal sustainability goals such as energy managers, federal facility managers, building operations professionals and specialized program managers."

BBWG Job Titles Support Federal Legislation

- Building Energy Manager
- Building Operating Professional
- Federal Facility Manager
- Building Energy Auditor
- Building Commissioning Professional

FBPTA, EO-13963, FY12 NDAA

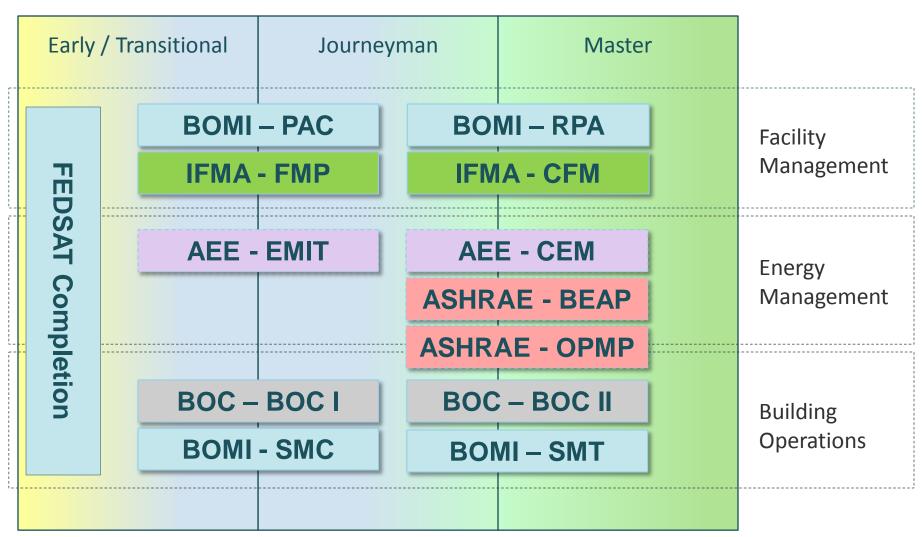
FBPTA, EO-13963, FY12 NDAA

FBPTA (FEDSAT), EO-13963

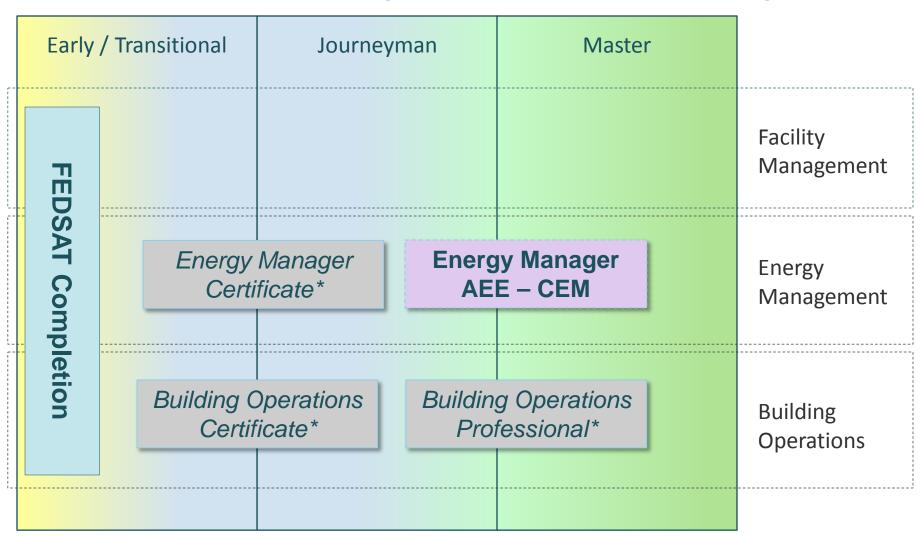




Simplified Career Pathways

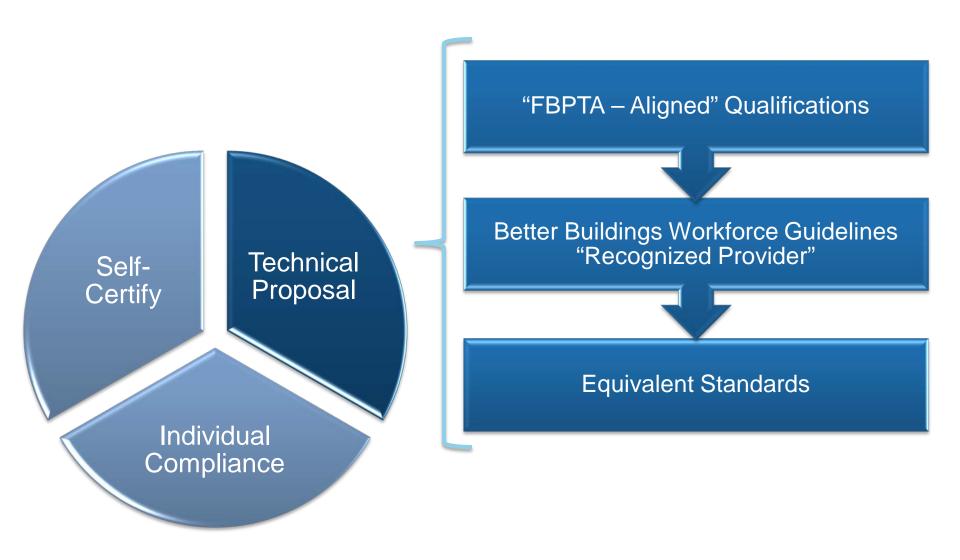


"BBWG-Recognized" Credentialing



BBWG Recognized = 3rd Party accreditation; crosswalked to FBPTA

Implementing with Contractors



Implementing with the Federal Workforce

- Tools to help feds incorporate BBWG into their career planning
 - <u>FEDSAT</u> identifies skill gaps and links to free training resources
 - Accelerate FM identify role and appropriate courses / credentials
- Adding requirements into existing HR documents for diverse roles
 - GSA 1176 Property Manager position description
 - DoD Energy Manager consolidation
- Occupational series for sustainability-related professionals
 - CEQ and OPM working with agencies to consider occupational series for Energy Manager, and, perhaps Building Operations Professional
- Contact information:
 - Brian Gilligan <u>brian.gilligan@gsa.gov</u>; (202) 596-4179

Certificate of Proficiency in Benchmarking

Deane Evans, New Jersey Institute of Technology



Certificate of Proficiency in Benchmarking

A training and certificate program for benchmarking building energy and water performance using ENERGY STAR Portfolio Manager® www.benchmarkingcertificate.org

CPB is sponsored and administered by the New Jersey Institute of Technology with funding and support from CBEI.







Overview

- What the Certificate of Proficiency in Benchmarking is
- Where are there benchmarking ordinances
- How and where it was birthed
- What is in the curriculum and training program
- What is the credential
- Who is part of the CPB team







The Certificate of Proficiency in Benchmarking

WHY

Growing legislation for Benchmarking and Disclosure across the U.S. Growing public interest for understanding and improving building energy performance

WHAT

Certificate of Proficiency in Benchmarking is a free online training program with 7 modules

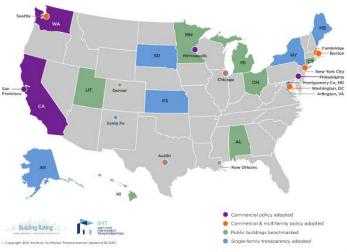
The training program teaches users how to properly use Portfolio Manager VALUE

Students who complete the training can register to take the credential exam For a nominal fee, if pass the credential exam, receive the credential which is recognized in Portfolio Manager

HOW

USEPA; the Cadmus Group, NJIT, NRDC, & CBEI
An advisory board of Benchmarking subject-matter experts was also
involved in developing the training

U.S. Building Benchmarking and Transparency Policies







- Portfolio Manager 101 and 201 are introductions to portfolio manager, providing navigation assistance.
- Portfolio Manager 301 demonstrates for participants how to use some of the more advanced features of Portfolio Manager.
- Portfolio Manager 401 address the current quality assurance/quality control issues, looking at methods to insure high quality data.
- Portfolio Manager 501 will walk students through the process of actually entering the data in to Portfolio Manager.





 Portfolio Manager 101 and 201 are introductions to portfolio manager, providing navigation assistance.

Learning Objectives



- In this session, you will become familiar with EPA's ENERGY STAR® Portfolio Manager® tool and learn how to:
 - Navigate Portfolio Manager
 - Add a property and enter details about it
 - Enter energy and water consumption data
 - Share properties
 - Generate performance reports to assess progress
 - Respond to data requests





 Portfolio Manager 301 demonstrates for participants how to use some of the more advanced features of Portfolio Manager.

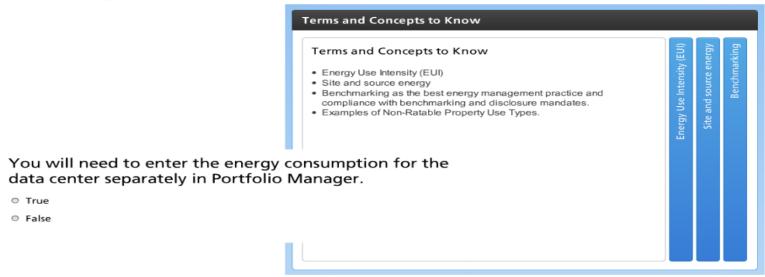
Learning Objectives

- In this session, you will learn how to:
 - Edit property information
 - Correct or update property use details
 - Address data quality alerts
 - Add data using the spreadsheet upload feature
 - Set baselines and goals on the Planning tab
 - Analyze progress and performance with Portfolio Manager Reports
 - Use the Sustainable Buildings Checklist





 Quiz questions to test your knowledge are integrated throughout the text and interactive learning enhancements.







 The intention of Portfolio Manager 401 is to address the current quality assurance/quality control issues, looking at methods to insure high quality data.

Learning Objectives



- Portfolio Manager Help and www.energystar.gov/buildingshelp
- Portfolio Manager Training Resources
- Portfolio Manager Terms, Benchmarking Tips, and Common Challenges
- ENERGY STAR Building Upgrade and Financial Resources



- Engaging the student in a lesson where they can use their knowledge from the previous 4 lessons, Portfolio Manager 501 will walk students through the process of actually entering the data in to Portfolio Manager.
- How to Apply for Energy Star Certification is an additional module that walks users through this process.
- The Multi Family Housing module provides assistance on how to benchmark this property type.





To qualify to take the Certificate of Proficiency in Benchmarking exam, candidates must have completed the four training modules within the previous 12-month period.

If I enter consumption data with a date gap/overlap in to Portfolio Manager it will trigger a data _____.

type your text here





The Credential

- The certificate will have a unique identification number that can be used to distinguish yourself as a certified benchmarking professional in the ENERGY STAR Portfolio Manager™ and local disclosure compliance documents (if applicable).
- The fee for initial Certificate of Proficiency in Benchmarking® exam is \$250 for (up to) three exam attempts and 2-year credentialing period.
- The fee for renewal of Certificate of Proficiency in Benchmarking® training and exam is \$100 for (up to) three exam attempts and additional 2-year credentialing period.





USDOE Building Energy Asset Score Tool Training

- The curriculum for this program is designed to ensure that participants can learn and then demonstrate basic proficiency in the skills needed to generate an Asset Score for a representative commercial building – all through an online platform available ondemand, 24/7.
- 4 professional development hours and 4 CEUs available
- All learning modules are available to the public at no cost.
- The fee for initial Certificate of Proficiency in the Asset Score Tool exam is \$275 for (up to) three exam attempts and 2-year credentialing period.

Certificate of Proficiency in Benchmarking + Asset Score

- Certificate of Proficiency in Benchmarking
 - benchmarkingcertificate.org
- Asset Score
 - assetscorecertificate.org





Certificate of Proficiency in Benchmarking + Asset Score

Questions??





Discussion



Thank you!



