

**FORM FOR SCORING OF TRAINING RESOURCE TO FULFILL FEDERAL BUILDING PERSONNEL TRAINING ACT (FBPTA) CORE COMPETENCIES**

The FBPTA requires Federal building personnel to demonstrate compliance with a set of Core Competencies. The General Services Administration (GSA) accepts submissions for courses, certificates, certifications, accreditations, registrations, licenses, and other qualifications that demonstrate alignment with the FBPTA Core Competencies. GSA will post resources that sufficiently map to FBPTA Core Competency requirements on the FMI webpage (www.fmi.gov) and may incorporate them into the Core Competency Web Tool. The Web Tool allows Federal buildings personnel to immediately claim credit for competencies met by completing approved training. FMI and the Core Competency Web Tool help Federal employees identify appropriate training, and allow Federal agencies to share information on training sources. To qualify for consideration, submitters complete this form describing how a specific training resource, certification / accreditation, license or other resource aligns with FBPTA core competencies through AskFMI@gsa.gov.

Initial Review Conducted By: Maria Fara

Initial Review Submission Completion Date: December 9, 2013

Technical Review Conducted By: Maria Fara

Technical Review Submission Completion Date: January 21, 2014

**Alignment of Competency with Functional Roles**

Often Aligned with Facility Management roles (24/43 Core Competencies)
Often Aligned with Building Operations Professional roles (6/43 Core Competencies)
Often Aligned with Energy Management Role (7/43 Core Competencies)
Often Aligned with more than one role (6/43 Core Competencies)

**1. Please complete the following for each training course submitted for consideration:**

Training provider: **Department of Energy: Federal Energy Management Program (FEMP)**

Provider address information (primary physical location, including address, city, state, zip code): **Department of Energy, Federal Energy Management Program, 5E-089, Forestal Building, 1000 Independence Avenue, Washington, D.C. 20585**

Provider's primary point of contact for this learning resource (name, primary physical location (if different from provider address information), phone, and email): **Beverly Dyer 202-586-7241, beverly.dyer@ee.doe.gov.**

Title of this training resource: **FEMP05:Advanced Electric Metering in Federal Facilities**

Type of training course: **web-based training**

Does this course provide CEUs (Continuing Education Units) and if so, how many and for what occupation or field? **CEUs are offered as follows: American Institute of Architects offers 3.5 Continuing Education Hours, the Green Building Certification Institute offers 3.5 Continuing Education Hours, and FEMP offers .40 CEUs for this course.**

Learning objective(s) associated with this training course: The objectives of this course are that the learner will have the skills to:

- select the most appropriate advanced electric metering system at the building, circuit, panel, or end use level
- evaluate and select data analysis tools from in-house developed spreadsheets to commercially available software packages
- plan for new or additional electric metering that enables the facility to improve energy efficiency and operations
- ensure that the current metered data is processed and interpreted in a way to facilitate targeted decisions and take action
- use demand profiles and other graphical displays to make decisions that reduce electricity demand and save on utility bills

Delivery method and learning methods (delivery methods may include online instruction, classroom instruction, or other means, and learning methods could include lecture, group work, essay work, quizzes, or other learning activities): **This is a web-based training course divided into 4 learning modules. Methods of instruction include use of advance organizers and review at the end of each module, short video lectures by an expert instructor, narrated information supported by visual reinforcement, interactive exercises, visual displays of information supported by roll-over text, links to more in-depth information, etc.**

Length of training (in hours): **varies by learner but approximately 4 hours.**

URL link to information about the training course, content, and/or syllabus: **http://www.wbdg.org/education/femp05.php**

2. Review the course objective(s) that have been submitted as being aligned with required FBPTA performance criteria. Review the learning methods in the course that will support that learning objective(s).													
FBPTA Core Competency Area	FBPTA Core Competency	Required FBPTA performance criteria	Based on technical review of learning objectives and skills, does this resource map to the performance criteria?	Initial Review: Are all submission requirements included?	Initial Review: Are descriptions clear and logical?	Initial Review: Are all materials referenced included with the submission?	Technical Review: Learning Objectives Reviewed	Technical Review: Skills Reviewed	Technical Review: Are there any clarifications requested?	If clarification requested, note here	Clarification Response From Provider	Technical Review: Identify other materials submitted	Technical Review: Other Materials Reviewed
1. Management of Facilities O&M	1.1. Management of Building Systems	1.1.6. Demonstrate ability to monitor and evaluate how well building systems perform.	Yes, based on the review of the learning objectives and the skills/materials covered, the topics listed should include demonstrate ability to monitor and evaluate how well building systems perform.	Yes	Yes	Yes	Yes	Yes	No			Course material provided in the link	Yes
2. Performance of Facilities O&M	2.5. Best Practices and Innovation	2.5.1. Demonstrate knowledge of the "Ten Steps to Operational Efficiency" – <i>FEMP O&amp;M Best Practices Guide Rev 3.0 pg. 291.</i> ( <a href="http://www1.eere.energy.gov/femp/pdfs/omguide_complete.pdf">http://www1.eere.energy.gov/femp/pdfs/omguide_complete.pdf</a> )	Partial. This course received credit because the course only addresses metering and measurement components of the "Ten Steps to Operational Efficiency."	Yes	Yes	Yes	Yes	Yes	Yes	Based on the review of the learning objectives and the skills/materials covered, this course does not address all 10 of the steps in "Ten Steps to Operational Efficiency" – FEMP O&M Best Practices Guide Rev 3.0 pg 291". The course skills reflect two of the ten steps, but fails to educate course takers on the remaining steps.	Correct. This course only addresses metering and measurement components of the Ten Steps to Operational Efficiency	Course material provided in the link	Yes
		2.5.5. Demonstrate knowledge of metering and sub-metering for energy and water and how they contribute to systems optimization.	Partial. This course received credit because the course provides general knowledge of metering and sub-metering for energy and how they contribute to systems optimization. However, it does not provide information about knowledge of metering and sub-metering for water.	Yes	Yes	Yes	Yes	Yes	Yes	Based on the review of the learning objectives and the skills/materials covered, this course does not clearly map to the performance criteria relative to water. The course skills reflect only electrical measurement and fail to address water use measurement.	This course does not address water. FEMP would like to have this course considered for Electric Metering, which is covered in-depth.	Course material provided in the link	Yes
4. Energy Management	4.5. Planning Programs	4.5.2. Demonstrate knowledge and ability to develop a metering Program.	Partial. This course received credit because the course provides general knowledge and ability to develop a metering Program for electric system. However, it does not provide information about knowledge and ability to develop a metering Program or other systems.	Yes	Yes	Yes	Yes	Yes	Yes	It is not clear that the course objectives address "demonstrate knowledge and ability to develop a metering program." A metering program may include building water use which is not included in this course.	This course does not address water. FEMP would like to have this course considered for Electric Metering which is covered in-depth.	Course material provided in the link	Yes
12. Performance Measures	12.3. Establishment and incorporation	12.3.4. Demonstrate ability to establish baselines from which progress toward attainment of goals can be measured.	Yes, based on the review of the learning objectives and the skills/materials covered, the topics listed should include demonstrate ability to establish baselines from which progress toward attainment of goals can be measured.									Course material provided in the link	Yes