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

The FBPTA requires Federal building personnel to demonstrate competencies. GSA will post resources that sufficiently map to FBPTA Core Competencies, and other qualifications, licenses, and other qualifications, registrations, licenses, and other qualifications, 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 allows Federal buildings personnel to immediately claim credit for competency Web Tool help Federal employees identify appropriate training, and allow Federal agencies to share information on training sources. To qualify for consideration, submitters competencies through AskFMI@gsa.gov.

Intial Review Conducted By: Maria Fara

Initial Review Submission Completion Date: 10-25-13

Technical Review Conducted By: Angela Lewis

Technical Review Submission Completion Date: 11-13-13

## 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: FEMP06: Managing a Water Assessment in a Federal Facility

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 Archtects offers 3.5 Continuing Education Institute offers 3.5 Continuiting Education Hours, and FEMP offers .40 CEUs for this course.

Learning objective(s) associated with this certificate program course: By completing this course you will learn to manage the process for conducting a water assessment (audit) in a Federal building including:

- Planning and/or managing a water assessment at a Federal site;
- Developing a water balance based on knowledge of the water distribution system for the facility and using available information such as utility bills and metered data;
- · Planning and/or managing walk-through surveys that address building plumbing fixtures, laboratory equipment, cooling towers, and irrigation;
- Developing a plan for improving water efficiency using the water balance and the walk-through survey findings;
- Identifying water efficient technologies and assessing the economics of each technology so implementation of the technologies can be prioritized;
- Learning the basic components of contracting comprehensive water assessments through private water management firms.

Delivery method and learning methods (delivery methods (delivery methods may 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, 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/femp06.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 | FBPTA Core | Required FBPTA performance criteria | Based on technical review of learning objectives and skills, | Initial Review: | Initial Review:  | Initial Review:   | Technical  | Technical      | Technical      | If clarification requested, note here | Clarification Response | Technical Review:        | Technical Review: |
|------------|------------|-------------------------------------|--|-----------------|------------------|-------------------|------------|----------------|----------------|---------------------------------------|------------------------|--------------------------|-------------------|
| Competency | Competency |                                     | does this resource map to the performance criteria?          | Are all         | Are descriptions | Are all materials | Review:    | Review: Skills | Review: Are    |                                       | From Provider          | Identify other materials | Other Materials   |
| Area       |            |                                     |  | submission      | clear and        | referenced        | Learning   | Reviewed       | there any      |                                       |                        | submitted                | Reviewed          |
|            |            |                                     |  | requirements    | logical?         | included with the | Objectives |                | clarifications |                                       |                        |                          |                   |
|            |            |                                     |  | included?       |                  | submission?       | Reviewed   |                | requested?     |                                       |                        |                          |                   |
|            |            |                                     |  |                 |                  |                   |            |                |                |                                       |                        |                          |                   |
|            |            |                                     |  |                 |                  |                   |            |                |                |                                       |                        |                          |                   |
|            |            |                                     |  |                 |                  |                   |            |                |                |                                       |                        |                          | i i               |
|            |            |                                     |  |                 |                  |                   |            |                |                |                                       |                        |                          |                   |

|   |   | 1.1.1.Demonstrate familiarity with Building Systems.  | No, based on the review of the learning objectives and the   | Yes | Yes | No  | Yes | Yes | Yes | The course focuses on water systems, including  | None | No |
|---|---|---|--|-----|-----|-----|-----|-----|-----|---|------|----|
| 1.Management of Facilities O&M            | 1.1 Management of Building Systems                      |   | skills/materials covered, this course does not address performance criteria 1.1.1: Demonstrate familiarity with building systems. The course focuses only on water systems; thus the following are not covered: electrical (and standby generators), lighting, plumbing (and fire protection systems), vertical transportation, structural, roofing and building envelope. Although the course includes cooling towers, this does not sufficiently represent HVAC systems. |     |     |     |     |     |     | cooling towers (an example of an HVAC system), plumbing and irrigation systems. However, the performance critiera also requires that electrical (and standby generators), lighting, fire protection, vertical transportation, structural, roofing, building envelope systems be covered. It is not clear that these systems are included in the course. It is possible partial credit may be given after clarification. |      |    |
|   |   | 1.1.2.Demonstrate ability to work with Facilities Team to assess a facility's need for building systems.  | No, based on the review of the learning objectives and the skills/materials covered, this course does not address performance criteria 1.1.2: Demonstrate ability to work with facilities team to assess the needs of a facility for building systems. NOTE: The word "text" is likely "test."   | Yes | Yes | No  | Yes | Yes | No  |   | None | No |
| 2.<br>Performance<br>of Facilities<br>O&M | 2.1. Operating<br>and<br>Maintaining<br>HVAC<br>Systems | 2.1.5.Demonstrate ability to coordinate HVAC system changes.  | No, based on review of the learning objectives and the skills/materials covered, this course does not address performance criteria 2.1.5 to demonsrate the ability to cooridate HVAC system changes. Specifically, the course does not address irrigation leaks.   | Yes | Yes | No  | Yes | Yes | Yes | It is not clear that the course specifically addresses irrigation leaks. Although the learning methods mention water efficient irrigation, it is not clear if this includes instruction on identifying irrigation leaks.  | None | No |
|   | tions, Goals and B                                      | 8.1.1.Demonstrate knowledge of water efficiency principles that are applicable in both the public and private arenas.   | Yes, based on review of the learning objectives and the skills/materials covered, the course should include knowledge of water efficiency principles that are applicable in both public and private arenas.  | Yes | Yes | Yes | Yes | Yes | No  |   | None | No |
|   |   | 8.1.2.Demonstrate knowledge of Federal water policy and goals found in Laws and Executive Orders:   |  | Yes | Yes | Yes | Yes | Yes | No  |   | None | No |
| 8. Water Efficiency                       |   | 8.1.5.Demonstrate knowledge of how the following affect water use and efficiency and ability to make recommendations based on lifecycle analysis and best practices to facilities team: | Partial. This course received credit for distribution system audits, leak detection and repair, water-efficient landscaping, toilets and urinals, showerheads and faucets, single-pass cooling equipment, and cooling tower management.  | Yes | Yes | Yes | Yes | Yes | Yes | Although the course information provided should include information about making recommendations on best practices, it does not appear to include knowledge of making recommendations based on lifecycle analysis. More specifically, although the material appears to cover distribution system audits, leak detection   | None | No |
|   |   | 8.2.1. Demonstrate knowledge and ability to conduct both a Top-down and Bottom-up water audit:  | Yes, based on the review of the learning objectives and the skills/materials covered, the topics listed should include knowledge to conduct a top-down and bottom-up water audit. The components of both top-down and bottom-up approaches appear to be covered. NOTE: The word "text" is likely "test" in the learning methods column.  |     | Yes | Yes | Yes | Yes | No  |   | None | No |
| ce Measures                               |   | 12.2.2.Demonstrate knowledge of key building performance measures, where and how to read them, and reporting requirements.  | No, based on reivew of the learning objectives and the skills/material covered, this course does not demonstrate knowledge of key building performance measures, where and now to read them, and reporting requirements. Since the course is limited to water management, it does not meet the true intent of the performance criteria: a facility management intended competency of overall key building performance measures.  | Yes | Yes | Yes | Yes | Yes | No  |   | None | No |
| 12. Performanc                            |   | 12.3.4.Demonstrate ability to establish baselines from which progress toward attainment of goals can be measured.   | No, based on reivew of the learning objectives and the skills/material covered, this course does not demonstrate knowledge of key building performance measures, where and now to read them, and reporting requirements. Since the course is limited to water management, it does not meet the true intent of the performance criteria: a facility management intended competency of overall key building performance measures.  | Yes | Yes | Yes | Yes | Yes | No  |   | None | No |