

FORM FOR SUBMISSION OF TRAINING RESOURCE TO FULFILL FEDERAL BUILDING PERSONNEL TRAINING ACT (FBPTA) CORE COMPETENCIES (March 2013)

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, complete this form describing how a specific training resource, certification / accreditation, license or other resource aligns with FBPTA core competencies. Submit completed forms or any questions on how to complete the form to AskFMI@gsa.gov.

Initial Review Conducted By: Maria Fara

Initial Review Submission Completion Date: October 25, 2013

Technical Review Conducted By: Tom Larson

Technical Review Submission Completion Date: January 3, 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 certification or accreditation being submitted for consideration:

Indicate if this certification or accreditation program will test anything specific and what is being tested: **See below.**

Provider address information (primary physical location, including address, city, state, zip code): **International Facility Management Association, 800 S. Gessner, Suite 900, Houston, TX 77024 USA**

Provider's primary point of contact for this registration (name, primary physical location (if different from provider address information), phone, and email): **Cathy Pavick - cathy.pavick@ifma.org**

Title of this training resource: **Certified Facility Manager (CFM)**

Type of certification or accreditation program: **The CFM is a competency-based certification, earned by passing a comprehensive exam based on the 11 competency areas determined by IFMA's Global Job Task Analysis.**

Communication
Emergency Preparedness and Business Continuity
Environmental Stewardship and Sustainability
Finance and Business
Human Factors
Leadership and Strategy
Operations and Maintenance
Project Management
Quality
Real Estate and Property Management
Technology

Learning, knowledge, background, expertise required for the certification or accreditation: **Please see <http://www.ifmacredentials.org/cfm/earn-your-cfm-certification/eligibility-requirements> for Eligibility Requirements to take the CFM Exam.**

URL link to information about the registration: **<http://www.ifmacredentials.org/cfm/earn-your-cfm-certification>**

Please note:

- Most of the FBPTA performance criteria ask for some kind of "demonstration" of ability, knowledge, familiarity and so forth. Since the CFM Exam does not include observable assessment of candidate performance, demonstration per se is not possible.
- However, the CFM Exam is not simply a test of knowledge. As a competency-based exam, the CFM Exam presents questions at higher cognitive levels such as application, analysis, synthesis and evaluation. To determine the correct answer, candidates must apply the reasoning, judgment and other cognitive skills gained through FM work experience to their knowledge of facility management. Those who attain a passing score on the CFM Exam are considered to be highly competent facility managers, having met the highest global standard.
- As a true certification, the CFM has no requirement for specific coursework, so facility management knowledge may be obtained from any source, including experience.
- The CFM Exam and the facility management body of knowledge are both developed from the global perspective and do not attempt to cover regional, national or local laws, standards, codes and regulations. The foundational concepts are covered from a universal standpoint, with facility managers being responsible for knowing and complying with the requirements that apply to their specific locations.
- Finally, the CFM is a management-level certification and the facility management body of knowledge is not a technical or operator manual. While CFMs are expected to have knowledge of facility systems and equipment at the management level, being able to operate every piece of equipment is not an expectation.

2. Review the certification requirement that have been submitted as being completely or partially aligns with required FBPTA performance criteria.

FBPTA Core Competency Area	FBPTA Core Competency	Required FBPTA performance criteria	Based on technical review of alignment description, 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: Certification Requirements 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
Management of Facilities O&M	1.1 Management of Building Systems	1.1.1.Demonstrate familiarity with Building Systems.	Yes, based on the review of the certification requirements, the CFM should be familiar with the listed building systems.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		1.1.2.Demonstrate ability to work with Facilities Team to assess a facility's need for building systems.	Yes, based on the review of the certification requirements, the CFM should have the ability to work with the Facilities Team to assess a facility's need for building systems.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		1.1.3.Demonstrate ability to oversee the acquisition, installation, and operation of building systems.	Yes, based on the review of the certification requirements, the CFM should have the ability to oversee the acquisition, installation, and operation of building systems.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		1.1.4.Demonstrate ability to work with Facilities Team to establish practices and procedures.	Yes, based on the review of the certification requirements, the CFM should have the ability to work with Facilities Team to establish practices and procedures.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		1.1.5.Demonstrate ability to work with Facilities Team to determine and administer the allocation of building systems' resources.	Yes, based on the review of the certification requirements, the CFM should have the ability to work with Facilities Team to determine and administer the allocation of building systems' resources.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		1.1.6.Demonstrate ability to monitor and evaluate how well building systems perform.	Yes, based on the review of the certification requirements, the CFM should have the ability to monitor and evaluate how well building systems perform.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		1.1.7.Demonstrate ability to manage corrective, preventive and predictive maintenance.	Yes, based on the review of the certification requirements, the CFM should have the ability to manage corrective, preventive and predictive maintenance.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		1.1.8.Demonstrate ability to work with Facilities Team to develop emergency procedures for building systems.	Yes, based on the review of the certification requirements, the CFM should have the ability to develop emergency procedures for building systems.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		1.1.9.Demonstrate knowledge of how to implement disaster recovery plans for building systems as required.	Yes, based on the review of the certification requirements, the CFM should have knowledge of how to implement disaster recovery plans for building systems as required.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		1.2.1.Demonstrate knowledge of how to evaluate building structures and permanent interiors.	Yes, based on the review of the certification requirements, the CFM should have knowledge of how to evaluate building structures and permanent interiors.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes

1.1	1.2 Management of Building Interior	1.2.2.Demonstrate ability to manage the service/repair requests and maintenance and cleaning needs of building structures and permanent interior elements.	Yes, based on the review of the certification requirements, the CFM should have the ability to manage the service/repair requests, maintenance, cleaning needs of building structures, and permanent interior elements.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		1.2.3.Demonstrate ability to evaluate furniture and equipment performance.	Yes, based on the review of the certification requirements, the CFM should have the ability to evaluate furniture and equipment performance.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		1.2.4.Demonstrate ability to manage the maintenance and cleaning of furniture and equipment.	Yes, based on the review of the certification requirements, the CFM should have the ability to manage the maintenance and cleaning of furniture and equipment.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
	1.3 Management of Building Exterior	1.3.1.Demonstrate familiarity with managing grounds and exteriors, parking structures, site utilities, landscaping and grounds, exterior envelope (roof, brick, masonry, etc.).	Yes, based on the review of the certification requirements, the CFM should be familiar with managing grounds and exteriors, parking structures, site utilities, landscaping and grounds, exterior envelope (e.g., roof, brick, masonry).	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		1.3.2.Demonstrate ability to assess the effect of climate and extreme environmental conditions	Yes, based on the review of the certification requirements, the CFM should have the ability to assess the effect of climate and extreme environmental conditions.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		1.3.3.Demonstrate ability to evaluate the performance of grounds and exterior elements.	Yes, based on the review of the certification requirements, the CFM should have the ability to evaluate the performance of grounds and exterior elements.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		1.3.4.Demonstrate ability to assess the need for alterations in grounds and exterior elements.	Yes, based on the review of the certification requirements, the CFM should have the ability to assess the need for alterations in grounds and exterior elements.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		1.3.5.Demonstrate ability to manage the maintenance and custodial needs of grounds and exterior elements.	Yes, based on the review of the certification requirements, the CFM should have the ability to manage the maintenance and custodial needs of grounds and exterior elements.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
	1.4 Management of Other Facility Systems	1.4.2.Demonstrate ability to work with Security Personnel as required.	Yes, based on the review of the certification requirements, the CFM should have the ability to work with security personnel as required.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
			2.1.1.Demonstrate ability to collect Operating Data on system.	Partial. This course received credit because the course provides general knowledge of collecting operating data on systems. However, as the performance criteria is intended primarily for building operators, it does not provide information at the detailed level required for a building operator.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline

2.1. Operating and Maintaining HVAC Systems	2.1.2.Demonstrate ability to adjust System Parameters as required.	Partial. This course received credit because the course provides general knowledge of adjusting system parameters. However, as the performance criteria is intended primarily for building operators, it does not provide information at the detailed level required for a building operator.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
	2.1.3.Demonstrate understanding of indoor air quality and how to test and adjust it.	Partial. This course received credit because the course provides general knowledge of indoor air quality. However, as the performance criteria is intended primarily for building operators, it does not provide information at the detailed level required for a building operator.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
	2.1.4.Demonstrate ability to analyze HVAC system performance.	Partial. This course received credit because the course provides general knowledge of analyzing HVAC performance. However, as the performance criteria is intended primarily for building operators, it does not provide information at the detailed level required for a building operator.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
	2.1.5.Demonstrate ability to coordinate HVAC system changes.	Partial. This course received credit because the course provides general knowledge of coordinating HVAC system changes. However, as the performance criteria is intended primarily for building operators, it does not provide information at the detailed level required for a building operator.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
	2.1.6.Demonstrate knowledge and ability to maintain all HVAC Systems.	Partial. This course received credit because the course provides general knowledge of maintaining HVAC systems. However, as the performance criteria is intended primarily for building operators, it does not provide information at the detailed level required for a building operator.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
	2.1.7.Demonstrate knowledge and ability to repair all HVAC Systems.	Partial. This course received credit because the course provides general knowledge of repairing HVAC systems. However, as the performance criteria is intended primarily for building operators, it does not provide information at the detailed level required for a building operator.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
	2.1.8.Demonstrate knowledge and ability to optimize HVAC controls.	Partial. This course received credit because the course provides general knowledge of optimizing HVAC controls. However, as the performance criteria is intended primarily for building operators, it does not provide information at the detailed level required for a building operator.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes

2. Performance of Facilities O&M	2.2. Operating and Maintaining Electrical and Mechanical Systems	2.2.1.Demonstrate knowledge and ability with Lighting Systems.	Partial. This course received credit because the course provides general knowledge of lighting systems. However, as the performance criteria is intended primarily for building operators, it does not provide information at the detailed level required for a building operator.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		2.2.2.Demonstrate knowledge and ability to change: electrical fuses, control boards, electrical fixtures, and electrical relays.	Partial. This course received credit because the course provides general knowledge of electrical fuses, control boards, electrical fixtures, and electrical relays. However, as the performance criteria is intended primarily for building operators, it does not provide information at the detailed level required for a building operator.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		2.2.3.Demonstrate knowledge and ability to replace electric motors.	Partial. This course received credit because the course provides general knowledge of electric motors. However, as the performance criteria is intended primarily for building operators, it does not provide information at the detailed level required for a building operator.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		2.2.4.Demonstrate knowledge and ability to maintain plumbing fixtures, sewage injectors, and water heaters.	Partial. This course received credit because the course provides general knowledge of plumbing fixtures, sewage ejectors, and water heaters. However, as the performance criteria is intended primarily for building operators, it does not provide information at the detailed level required for a building operator.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		2.2.5.Demonstrate knowledge and ability to identify water distribution and irrigation leaks.	Partial. This course received credit because the course provides general knowledge of water distribution and irrigation leaks. However, as the performance criteria is intended primarily for building operators, it does not provide information at the detailed level required for a building operator.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		2.2.6.Demonstrate knowledge and ability to all drains and backflow preventers.	Partial. This course received credit because the course provides general knowledge of drains and backflow preventers. However, as the performance criteria is intended primarily for building operators, it does not provide information at the detailed level required for a building operator.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		2.2.7.Demonstrate knowledge and ability to maintain pressure-reducing valves.	Partial. This course received credit because the course provides general knowledge of pressure-reducing valves. However, as the performance criteria is intended primarily for building operators, it does not provide information at the detailed level required for a building operator.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes

		2.2.8.Demonstrate knowledge and ability to replace water filters.	Partial. This course received credit because the course provides general knowledge of water filters. However, as the performance criteria is intended primarily for building operators, it does not provide information at the detailed level required for a building operator.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		2.2.9.Demonstrate knowledge and ability to winterize irrigation systems if necessary.	Partial. This course received credit because the course provides general knowledge of winterizing irrigation systems. However, as the performance criteria is intended primarily for building operators, it does not provide information at the detailed level required for a building operator.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
2.3. Operating, Maintaining and Testing Life Safety Systems		2.3.1.Demonstrate knowledge and ability to operate Fire Alarm panels and test the entire fire alarm system.	Partial. This course received credit because the course provides general knowledge of fire alarm panels and fire alarm systems. However, as the performance criteria is intended primarily for building operators, it does not provide information at the detailed level required for a building operator.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		2.3.2.Demonstrate knowledge and ability to test the emergency generators.	Partial. This course received credit because the course provides general knowledge of emergency generators. However, as the performance criteria is intended primarily for building operators, it does not provide information at the detailed level required for a building operator.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		2.3.3.Demonstrate knowledge and ability to test fire pumps and sprinkler systems.	Partial. This course received credit because the course provides general knowledge of fire pumps and sprinkler systems. However, as the performance criteria is intended primarily for building operators, it does not provide information at the detailed level required for a building operator.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		2.3.4.Demonstrate knowledge and ability to test smoke and heat sensors.	Partial. This course received credit because the course provides general knowledge of smoke and heat sensors. However, as the performance criteria is intended primarily for building operators, it does not provide information at the detailed level required for a building operator.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		2.3.5.Demonstrate knowledge and ability to inspect fire extinguishers.	Partial. This course received credit because the course provides general knowledge of fire extinguishers. However, as the performance criteria is intended primarily for building operators, it does not provide information at the detailed level required for a building operator.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes

2.4. General Building Maintenance	2.4.1.Demonstrate knowledge and ability to maintain door hardware.	Partial. This course received credit because the course provides general knowledge of door hardware. However, as the performance criteria is intended primarily for building operators, it does not provide information at the detailed level required for a building operator.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
	2.4.2.Demonstrate knowledge and ability to maintain roof systems.	Partial. This course received credit because the course provides general knowledge of roof systems. However, as the performance criteria is intended primarily for building operators, it does not provide information at the detailed level required for a building operator.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
	2.4.3.Demonstrate knowledge and ability to maintain ceiling tiles.	Partial. This course received credit because the course provides general knowledge of ceiling tiles. However, as the performance criteria is intended primarily for building operators, it does not provide information at the detailed level required for a building operator.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
	2.4.4.Demonstrate knowledge and ability to maintain flooring systems.	Partial. This course received credit because the course provides general knowledge of flooring systems. However, as the performance criteria is intended primarily for building operators, it does not provide information at the detailed level required for a building operator.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
	2.4.5.Demonstrate knowledge and ability to maintain window systems.	Partial. This course received credit because the course provides general knowledge of window systems. However, as the performance criteria is intended primarily for building operators, it does not provide information at the detailed level required for a building operator.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
	2.4.6.Demonstrate knowledge and ability to perform minor wall repairs.	Partial. This course received credit because the course provides general knowledge of wall repairs. However, as the performance criteria is intended primarily for building operators, it does not provide information at the detailed level required for a building operator.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
	2.5.1.Demonstrate knowledge of the "Ten Steps to Operational Efficiency" – <i>FEMP O&M Best Practices Guide Rev 3.0 pg. 291.</i> (http://www1.eere.energy.gov/femp/pdfs/omguide_complete.pdf)	No, based on the review of the certification requirements, CFM certification process does not provide specific knowledge of the ten steps listed in the FEMP O&M Best Practices Guide REV 3.0 pg. 291	Yes	Yes	Yes	Yes	Yes	Provide more information on how CFM certification process tests knowledge of the ten steps listed in the FEMP O&M Best Practices Guide REV 3.0 pg. 291		2009 GJTA Competency Outline	Yes
	2.5.3.Demonstrate knowledge of and the ability to perform "predictive maintenance." <i>FEMP O&M Best Practices Release 3.0 pg. 59</i> (http://www1.eere.energy.gov/femp/pdfs/omguide_complete.pdf)	Yes, based on the review of the certification requirements, the CFM should have the knowledge of and the ability to perform "predictive maintenance."	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes

2. Performance of Facilities O&M	2.5. Best Practices and Innovation	2.5.4.Demonstrate knowledge of ALL types of commissioning, and what is required in the Energy Independence and Security Act 2007 (EISA). FEMP O&M Best Practices Release 3.0 pg. 7.1 AND EISA SEC 432.	Partial. Based on the review of the certification requirements, the CFM should have knowledge of ALL types of commissioning, but does not cover what is required in the Energy Independence and Security Act 2007 (EISA). FEMP O&M Best Practices Release 3.0 pg. 7.1 AND EISA SEC 432.	Yes	Yes	Yes	Yes	Yes	Provide more information on how CFM certification process tests knowledge of the requirements of EISA as noted in the FEMP O&M Best Practices Release 3.0 pg 59.	2009 GJTA Competency Outline	Yes
		2.5.5.Demonstrate knowledge of metering and sub-metering for energy and water and how they contribute to systems optimization.	Yes, based on the review of the certification requirements, the CFM should have knowledge of metering and sub-metering for energy and water and how they contribute to systems optimization.	Yes	Yes	Yes	Yes	No		2009 GJTA Competency Outline	Yes
		2.5.6.Demonstrate knowledge of O&M Frontiers like those found in FEMP O&M Best Practices Guide Rev 3.0 pg. 287. (http://www1.eere.energy.gov/femp/pdfs/omguide_complete.pdf)	No, based on the review of the certification requirements, certification does not require knowledge of the technology tools in the O&M Frontiers section of the referenced guide.	Yes	Yes	Yes	Yes	No		2009 GJTA Competency Outline	Yes
		2.5.7.Demonstrate knowledge of advanced troubleshooting techniques on a systems-wide basis.	No, based on the review of the certification requirements, certification process does not provide specific knowledge of advanced troubleshooting techniques on a systems-wide basis.						Request clarification: Provide more information on how CFM certification process tests knowledge of advanced trouble-shooting techniques on a systems-wide basis. Assessment of systems and managing/overseeing operations and maintenance does not automatically map to knowledge of advanced troubleshooting for all systems.		
		3.1.1.Demonstrate ability to monitor information and trends related to facility management technologies.	Yes, based on the review of the certification requirements, the CFM should have the ability to monitor information and trends related to facility management technologies.	Yes	Yes	Yes	Yes	No		2009 GJTA Competency Outline	Yes
		3.1.2.Demonstrate ability to identify and interface with internal and external accountable resources (e.g., external vendors, internal or external IT systems owners).	Yes, based on the review of the certification requirements, the CFM should have the ability to identify and interface with internal and external accountable resources.	Yes	Yes	Yes	Yes	No		2009 GJTA Competency Outline	Yes
		3.1.3.Demonstrate ability to identify evaluation criteria, evaluate, and recommend facility management technologies solutions.	Yes, based on the review of the certification requirements, the CFM should have the ability to identify evaluation criteria, evaluate, and recommend facility management technologies solutions.	Yes	Yes	Yes	Yes	No		2009 GJTA Competency Outline	Yes
		3.1.4.Demonstrate ability to assess how changes to facility management technologies will impact current infrastructure, processes, and building systems.	Yes, based on the review of the certification requirements, the CFM should have the ability to assess how changes to facility management technologies will impact current infrastructure, processes, and building systems.	Yes	Yes	Yes	Yes	No		2009 GJTA Competency Outline	Yes

3. Technology	3.1. Technology Solutions	3.1.5.Demonstrate ability to plan for and oversee the acquisition, installation, operation, maintenance, upgrade, and disposition of components supporting facility management technologies.	Yes, based on the review of the certification requirements, the CFM should have the ability to plan for and oversee the acquisition, installation, operation, maintenance, upgrade, and disposition of components supporting facility management technologies.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes	
		3.1.6.Demonstrate ability to recommend and communicate policies. Establish practices and procedures.	Yes, based on the review of the certification requirements, the CFM should have the ability to recommend and communicate policies and establish practices and procedures.	Yes	Yes	Yes	Yes	No				2009 GJTA Competency Outline	Yes
		3.1.7.Demonstrate ability to develop and implement training programs for facilities staff and ancillary resources.	Yes, based on the review of the certification requirements, the CFM should have the ability to develop and implement training programs for facilities staff and ancillary resources.	Yes	Yes	Yes	Yes	No				2009 GJTA Competency Outline	Yes
		3.1.8.Demonstrate ability to monitor performance of facility management technologies and make appropriate recommendations when modifications are needed.	Yes, based on the review of the certification requirements, the CFM should have the ability to monitor performance of facility management technologies and make appropriate recommendations when modifications are needed.	Yes	Yes	Yes	Yes	No				2009 GJTA Competency Outline	Yes
		3.1.9.Demonstrate ability to manage corrective, preventive, and predictive maintenance.	Yes, based on the review of the certification requirements, the CFM should have the ability to develop, test, and implement, when necessary, emergency procedures and disaster recovery plans.	Yes	Yes	Yes	Yes	No				2009 GJTA Competency Outline	Yes
		3.1.10.Demonstrate ability to develop, test, and implement, when necessary, emergency procedures and disaster recovery plans.	Yes, based on the review of the certification requirements, the CFM should have the ability to develop, test, and implement, when necessary, emergency procedures and disaster recovery plans.	Yes	Yes	Yes	Yes	No				2009 GJTA Competency Outline	Yes
3.2. Building Automation Systems (BAS)	3.2. Building Automation Systems (BAS)	3.2.1.Demonstrate knowledge of a Building Automation System (BAS) and Maintenance Management Systems (MMS)	Partial. This course received credit because the course provides general knowledge of BAS and MMS. However, as the performance criteria is intended primarily for building operators, it does not sufficiently provide the detail required for a building operator.	Yes	Yes	Yes	Yes	No	Request clarification: Provide more information on how CFM certification provides specific knowledge of BAS and MMS and the relationship between them. Managing/overseeing Operations and Maintenance may not always include BAS and MMS.		2009 GJTA Competency Outline	Yes	
		3.2.2.Demonstrate understanding of the bridge between the technical and business aspects of facilities management.	Yes, based on the review of the certification requirements, the CFM should understand the bridge between the technical and business aspects of facilities management.										
			Partial. This course received credit because the course provides general knowledge of conducting trouble-shooting procedures at the equipment, system, and building levels. However, as the performance criteria is intended primarily for building operators, it does not provide information at the detailed level required for a building operator.	Yes	Yes	Yes	Yes	No				2009 GJTA Competency Outline	Yes

3. Technology		3.2.4.Demonstrate ability to conduct trouble-shooting of critical systems.	Partial. This course received credit because the course provides general knowledge of trouble-shooting critical systems. However, as the performance criteria is intended primarily for building operators, it does not provide information at the detailed level required for a building operator.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
	3.3. Maintenance Management System (MMS)	3.3.1.Demonstrate knowledge of Maintenance Management Systems (MMS) - Computer Assisted Facilities Management (CAFM) and Computerized Maintenance Management Systems (CMMS)	Yes, based on the review of the certification requirements, the CFM should have knowledge of Maintenance Management Systems (MMS) - Computer Assisted Facilities Management (CAFM) AND Computerized Maintenance Management Systems (CMMS).	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		3.3.2.Demonstrate ability to operate Maintenance Management Systems and Computerized Maintenance Management Systems.	Partial. Based on the review of the certification requirements, certification should cover the general knowledge of operating Maintenance Management AND Computerized Maintenance Management Systems. However, since this performance criteria is intended for a building operator, it does not cover the detail required for a building operator.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
Systems and Demand Reduction		4.1.1.Demonstrate knowledge of building systems and how they affect energy use	Yes, based on the review of the certification requirements, the CFM should have knowledge of building systems and how they affect energy use.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		4.1.2.Demonstrate knowledge of Combined Heat and Power (CHP) Systems and distributed generation.	Partial. This course received credit because the course provides general knowledge of Combined Heat and Power (CHP) Systems and distributed generation. However, as the performance criteria is intended primarily for energy managers, it does not provide information at the detailed level required for an energy manager.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		4.1.3.Demonstrate knowledge of Renewable Energy Systems – Solar (Thermal and Photovoltaic), Wind, Biomass, and Hydropower.	Partial. This course received credit because the course provides general knowledge of renewable energy systems. However, as the performance criteria is intended primarily for energy managers, it does not provide information at the detailed level required for an energy manager.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		4.1.4.Demonstrate knowledge of Thermal Energy Storage systems (e.g., chilled water storage, ice storage, potential energy storage).	Partial. This course received credit because the course provides general knowledge of Thermal Energy Storage Systems. However, as the performance criteria is intended primarily for energy managers, it does not provide information at the detailed level required for an energy manager.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		4.1.5.Demonstrate knowledge of Building Automation Systems (BAS) and Control Systems.	Yes, based on the review of the certification requirements, the CFM should have knowledge of Building Automation Systems (BAS) and Control Systems.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes

4.1.	4.1.6.Demonstrate knowledge of Enhanced Automation (EA) – California Energy Commission. http://www.energy.ca.gov/enhancedautomation/	Yes, based on the review of the certification requirements, the CFM should have knowledge of Enhanced Automation.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
	4.1.7.Demonstrate knowledge of Energy Management Systems (EMS) and Energy Information Systems (EIS).	Partial. This course received credit because the course provides general knowledge of EMS and EIS. However, as the performance criteria is intended primarily for energy managers, it does not sufficiently provide the detail required for an energy manager.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
	4.1.8.Demonstrate knowledge of re-programming current systems and expanding network of sensors and control devices to optimize HVAC, lighting, and other automated systems.	No, based on the review of the certification requirements, certification does not require specific knowledge of reprogramming current systems and expanding network of sensors and control devices to optimize HVAC, lighting, and other automated systems.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
	4.1.9.Demonstrate knowledge of how to incorporate occupancy sensors, task lighting, and thermostatic set-points with weather forecasting and other demand linked strategies to optimize building performance.	No, based on the review of the certification requirements, certification does not require specific knowledge of how to incorporate occupancy sensors, task lighting, and thermostatic set-points with weather forecasting and other demand linked strategies to optimize building performance.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
	4.2.2.Demonstrate knowledge of laws, regulations, and Executive Orders that pertain to energy management, status of compliance, and existing energy management plans. See FEMP website for list of laws and regulations: http://www1.eere.energy.gov/femp/regulations/regulations.html	No, based on the review of the certification requirements, CFM certification does not provide specific knowledge of laws, regulations, and Executive Orders that pertain to energy management, status of compliance, and existing energy management plans as listed in the FEMP website: http://www1.eere.energy.gov/femp/regulations/regulations.html	Yes	Yes	Yes	Yes	Yes	Request clarification: Provide more information on how CFM certification provides specific knowledge of laws, regulations, and Executive Orders that pertain to energy management, status of compliance, and existing energy management plans. See FEMP website for list of laws and regulations: http://www1.eere.energy.gov/femp/regulations/regulations.html		2009 GJTA Competency Outline	Yes
	4.2.3.Demonstrate knowledge of applicable Codes and Standards	No, based on the review of the certification requirements, CFM certification does not provide specific knowledge of applicable codes and standards.	Yes	Yes	Yes	Yes	Yes	Request clarification: Provide more information on how CFM certification provides specific knowledge of applicable codes and standards. Are any of the standards referenced in the performance criteria addressed?		2009 GJTA Competency Outline	Yes
4.2. Assess Initial Conditions											
4.3. Contracts (ESPC)	4.3.1.Demonstrate knowledge of all types of Commissioning, the differences between them, and commissioning requirements in laws and Executive Orders.	Partial. This course received credit for demonstrating knowledge and providing an overview of commissioning only. Based on the review of the learning objectives, the skills/materials covered, and the provider clarification IFMA SFP course does not address the specific requirement related to commissioning requirements in laws and Executive Orders.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes

4. Energy Management	4.3. Commissioning and Energy Savings Performance	4.3.2.Demonstrate knowledge of commissioning requirements for measurement and verification, phasing, and commission agent duties.	No, based on the review of the certification requirements, certification does not require specific knowledge of commissioning requirements for measurement and verification, phasing, and commission agent duties.	Yes	Yes	Yes	Yes	No		2009 GJTA Competency Outline	Yes
		4.3.3.Demonstrate knowledge of the Energy Savings Performance Contracting (ESPC) procedures and requirements.(http://www1.eere.energy.gov/femp/financing/mechanisms.html).	No, based on the review of the certification requirements, certification does not require specific knowledge of ESPC procedures and requirements.	Yes	Yes	Yes	Yes	No		2009 GJTA Competency Outline	Yes
		4.3.4.Demonstrate knowledge of Shared Savings Contracts, Power Purchase Agreements (PPA), Utility Energy Service Contracts (UESC), and Enhanced Use Leases (EUL). FEMP ONLINE course: http://apps1.eere.energy.gov/femp/training/course_detail_ondemand.cfm/CourseId=44	No, based on the review of the certification requirements, certification does not require specific knowledge of the listed topics from the FEMP Online course.	Yes	Yes	Yes	Yes	No		2009 GJTA Competency Outline	Yes
	4.4. Coordinate with Public Utilities	4.4.1.Demonstrate knowledge of utility service providers for facility (ies).	Partial. Based on the review of the certification requirements, the CFM should have knowledge of utility service providers for facilities. However, this performance criteria has a local knowledge component that can not be met through training.	Yes	Yes	Yes	Yes	No		2009 GJTA Competency Outline	Yes
		4.4.2.Demonstrate knowledge of utility meters - location, reading, and data management.	Partial. Based on the review of the certification requirements, the CFM should have knowledge of utility meters. However, this performance criteria has a local knowledge component that can not be met through training.	Yes	Yes	Yes	Yes	No		2009 GJTA Competency Outline	Yes
		4.4.3.Demonstrate knowledge of utility billing and rate structure.	Partial. Based on the review of the certification requirements, the CFM should have knowledge of utility billing and rate structures. However, this performance criteria has a local knowledge component that can not be met through training.	Yes	Yes	Yes	Yes	No		2009 GJTA Competency Outline	Yes
		4.4.4.Demonstrate knowledge of local utility programs - special rate programs and incentives.	Partial. Based on the review of the certification requirements, the CFM should have knowledge of local utility programs. However, this performance criteria has a local knowledge component that can not be met through training.	Yes	Yes	Yes	Yes	No		2009 GJTA Competency Outline	Yes
		4.4.5.Demonstrate the ability to work with Facilities Team to negotiate rates and discounts.	Partial. Based on the review of the certification requirements, the CFM should have knowledge of working with facilities team to negotiate rates and discounts. However, this performance criteria has a local knowledge component that can not be met through training.	Yes	Yes	Yes	Yes	No		2009 GJTA Competency Outline	Yes
		4.4.6.Demonstrate knowledge of how to work with utility departments to locate lines.	Partial. Based on the review of the certification requirements, the CFM should have knowledge of working with utility departments to locate lines. However, this performance criteria has a local knowledge component that can not be met through training.	Yes	Yes	Yes	Yes	No		2009 GJTA Competency Outline	Yes
		4.4.7.Demonstrate knowledge of utility emergency procedures and contacts.	Partial. Based on the review of the certification requirements, the CFM should have knowledge of utility emergency procedures. However, this performance criteria has a local knowledge component that can not be met through training.	Yes	Yes	Yes	Yes	No		2009 GJTA Competency Outline	Yes
4.5.1.Demonstrate knowledge and ability to develop an Energy master plan.	Partial. Based on the review of the certification requirements, the CFM should have general knowledge and ability to develop an energy master plan. However, since this performance criteria is intended for an energy manager, it does not meet the detail required for a...	Yes	Yes	Yes	Yes	No		2009 GJTA Competency Outline	Yes		

4.5. Planning, Project and Program Management	4.5.2.Demonstrate knowledge and ability to develop a metering Program.	Partial. Based on the review of the certification requirements, the CFM should have knowledge and ability to develop a metering Program. However, since this performance criteria is intended for an energy manager, it does not cover the detail required for an energy manager.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
	4.5.3.Demonstrate knowledge and ability to develop energy account database.	Partial. Based on the review of the certification requirements, the CFM should have knowledge and ability to develop an energy account database. However, since this performance criteria is intended for an energy manager, it does not cover the detail required for an energy manager.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
	4.5.4.Demonstrate knowledge and ability to provide planning support for energy budget.	Partial. Based on the review of the certification requirements, the CFM should have knowledge and ability to provide planning support for energy budget. However, since this performance criteria is intended for an energy manager, it does not cover the detail required for an energy manager.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
	4.5.5.Demonstrate knowledge and ability to identify and develop low-cost and no-cost energy efficiency opportunities.	Yes, based on the review of the certification requirements, the CFM should have knowledge and ability to identify and develop low-cost and no-cost energy efficiency opportunities.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
	4.5.6.Demonstrate knowledge and ability to provide operational support to energy management control systems.	Partial. Based on the review of the certification requirements, the CFM should have general knowledge and ability to provide operational support to energy management control systems. However, since this performance criteria is intended for an energy manager, it does not cover the detail required for an energy manager.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
	4.5.7.Demonstrate knowledge and ability to develop and assist in project identification and justification.	Yes, based on the review of the certification requirements, the CFM should have knowledge and ability to develop and assist in project identification and justification.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
	4.5.9.Demonstrate knowledge and ability to monitor facility energy projects.	Yes, based on the review of the certification requirements, the CFM should have knowledge and ability to monitor facility energy projects.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
	4.5.10.Demonstrate knowledge and ability to provide peak load management.	Yes, based on the review of the certification requirements, the CFM should have knowledge and ability to provide peak load management.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
	4.5.11.Demonstrate knowledge and ability to manage an energy awareness program and establish/support an awards program recognizing energy efficiency efforts.	Yes, based on the review of the certification requirements, the CFM should have knowledge and ability to manage an energy awareness program and establish and support an awards program recognizing energy efficiency efforts.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
	4.5.12.Demonstrate knowledge and ability to develop and distribute energy articles, newsletters, notices, posters, and signs.	Yes, based on the review of the certification requirements, the CFM should have knowledge and ability to develop and distribute energy articles, newsletters, notices, posters, and signs.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
	4.5.13.Demonstrate knowledge and ability to coordinate Energy Awareness Week/Month.	Yes, based on the review of the certification requirements, the CFM should have knowledge and ability to coordinate Energy Awareness Week and Month.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes

		4.5.14.Demonstrate the ability to calculate and respond appropriately to established energy metrics such as Power Utilization Efficiency (PUE).	No, based on the review of the certification requirements, certification does not require the ability to calculate and respond to established energy metrics such as Power Utilization Efficiency (PUE).	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		4.5.15.Demonstrate the ability to recommend and/or acquire certifications for specific skills.	Yes, based on the review of the certification requirements, the CFM should have the ability to recommend and/or acquire certifications for specific skills.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
5.2. Infrastructure		5.2.1.Demonstrate knowledge of control systems for: mold, asbestos, Histoplasmosis, and PCB in transformers.	No, based on the review of the certification requirements, certification does not require specific knowledge of control systems for mold, asbestos, Histoplasmosis, and PCB in transformers.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		5.2.2.Demonstrate knowledge of proper water treatment to prevent Legionnaire's Disease.	No, based on the review of the certification requirements, certification does not require specific knowledge of proper water treatment to prevent Legionnaire's Disease.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		5.2.3.Demonstrate knowledge of ventilation systems and prevention of contaminant introduction and cross contamination.	Yes, based on the review of the learning objectives and the skills/materials covered, the topics listed should demonstrate knowledge of ventilation systems and prevention of contaminant introduction and cross contamination.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		5.2.4.Demonstrate knowledge of fire prevention systems in hazardous locations/operations, food preparation areas, and electrical transformers.	Yes, based on the review of the certification requirements, the CFM should have knowledge of fire prevention systems in hazardous locations and operations, food preparation areas, and electrical transformers.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		5.2.5.Demonstrate the ability to manage compliance with NFPA 70E - 2012 for determining incident energy and marking the electrical components for the hazard distance and proper arc rated protective equipment.	No, based on the review of the certification requirements, certification does not require the ability to manage compliance with NFPA 70E - 2012 for determining incident energy and marking the electrical components for the hazard distance and proper arc rated protective equipment.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		5.2.6.Demonstrate knowledge of control of electric vehicle battery fires, internal use, occupant use, and visitor vehicles.	No, based on the review of the certification requirements, certification does not require knowledge of control of electric vehicle battery fires, internal use, occupant use and visitor vehicles.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		5.2.7.Demonstrate the ability to ensure that all building confined spaces are evaluated and marked.	No, based on the review of the certification requirements, certification does not require knowledge of confined space requirements.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		5.2.8.Demonstrate the ability to ensure proper maintenance of special purpose, unique design or antiquated fire alarm and suppression systems.	No, based on the review of the certification requirements, certification does not require the ability to ensure proper maintenance of special purpose, unique design or antiquated fire alarm and suppression systems.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes

5. Safety	5.3. Contractor Program Oversight	5.2.9.Demonstrate the ability to manage Compliance with elevator inspection requirements.	Yes, based on the review of the certification requirements, the CFM should have the ability to manage Compliance with elevator inspection requirements.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes	
		5.3.1.Demonstrate knowledge and ability to protect occupants with signs, barriers, fencing; and allow NO renovation of occupied space.	Yes, based on the review of the certification requirements, the CFM should have the ability to manage Compliance with elevator inspection requirements.	Yes	Yes	Yes	Yes	No				2009 GJTA Competency Outline	Yes
		5.3.2.Demonstrate knowledge of permit system for hot welding work and for confined space work.	No, based on the review of the certification requirements, certification does not provide specific knowledge of permit system for hot welding work and for confined space work.	Yes	Yes	Yes	Yes	Yes	Request clarification: Provide more information on how CFM certification provides specific knowledge of permit system for hot welding work and confined space work.			2009 GJTA Competency Outline	Yes
		5.3.3.Demonstrate knowledge of fall protection of people and tools/materials for contractor and occupants.	Yes, based on the review of the learning objectives and the skills/materials covered, the topics listed should include fall protection of people, tools, and materials for contractor and occupants.	Yes	Yes	Yes	Yes	Yes	Request clarification: Provide more information on how CFM certification provides specific knowledge of fall protection of people and tools/materials for contractor and occupants.			2009 GJTA Competency Outline	Yes
		5.3.4.Demonstrate knowledge of proper disposal of hazardous, toxic, and biologic materials.	Yes, based on the review of the learning objectives and the skills/materials covered, the topics listed should include proper disposal of hazardous, toxic, and biologic materials.	Yes	Yes	Yes	Yes	Yes	Request clarification: Provide more information on how CFM certification provides specific knowledge of proper disposal of hazardous, toxic, and biologic materials.			2009 GJTA Competency Outline	Yes
		5.3.5.Demonstrate knowledge of protection of electrical hazards to employees and to building infrastructure ; arc rated clothing, lock out/tag out program.	Yes, based on the review of the certification requirements, the CFM should have the knowledge of protection of electrical hazards to employees and to building infrastructure ; arc rated clothing, lock out/tag out program.	Yes	Yes	Yes	Yes	Yes	Request clarification: Provide more information on how CFM certification provides specific knowledge of electrical hazards to employees and to building infrastructure ; arc rated clothing, lock out/tag out program.			2009 GJTA Competency Outline	Yes
		5.3.6.Demonstrate knowledge of compliant protective equipment for contract and subcontract workers.	Yes, based on the review of the certification requirements, the CFM should have knowledge of compliant protective equipment for contract and subcontract workers.	Yes	Yes	Yes	Yes	Yes	Request clarification: Provide more information on how CFM certification provides specific knowledge of compliant protective equipment for contract and subcontract workers.			2009 GJTA Competency Outline	Yes
		5.3.7.Demonstrate knowledge of adequate fall protection working from ladders/heights.	Yes, based on the review of the certification requirements, the CFM should have knowledge of adequate fall protection working from ladders/heights.	Yes	Yes	Yes	Yes	Yes	Request clarification: Provide more information on how CFM certification provides specific knowledge of adequate fall protection working from ladders/heights.			2009 GJTA Competency Outline	Yes
		5.4.1.Demonstrate ability to ensure tenant renovations have adequate design, does not interfere with other tenants, local code compliance, high quality of work.	Yes, based on the review of the certification requirements, the CFM should have knowledge of the ability to ensure tenant renovations have adequate design, does not interfere with other tenants, local code compliance, high quality of work.	Yes	Yes	Yes	Yes	Yes	Request clarification: Provide more information on how CFM certification provides specific knowledge of the ability to ensure tenant renovations have adequate design, does not interfere with other tenants, local code compliance, high quality of work.			2009 GJTA Competency Outline	Yes
		5.4.2.Demonstrate knowledge of and ability to manage proper storage of hazardous, toxic, and biologic materials.	Yes, based on the review of the certification requirements, the CFM should have knowledge of and ability to manage proper storage of hazardous, toxic, and biologic materials.	Yes	Yes	Yes	Yes	Yes	Request clarification: Provide more information on how CFM certification provides specific knowledge of and ability to manage proper storage of hazardous, toxic, and biologic materials.			2009 GJTA Competency Outline	Yes

5.4. Occupant Interface	5.4.3.Demonstrate knowledge of and ability to manage proper disposal of hazardous (such as kitchen grease) and biologic materials (medical or research).	Yes, based on the review of the certification requirements, the CFM should have knowledge of and ability to manage proper disposal of hazardous (such as kitchen grease) and biologic materials (medical or research).	Yes	Yes	Yes	Yes	Yes	Request clarification: Provide more information on how CFM certification provides specific knowledge of and ability to manage proper disposal of hazardous (such as kitchen grease) and biologic materials (medical or research).	2009 GJTA Competency Outline	Yes
	5.4.4.Demonstrate knowledge of and ability to manage prohibition of fire hazards.	Yes, based on the review of the certification requirements, the CFM should have knowledge of and ability to manage prohibition of fire hazards.	Yes	Yes	Yes	Yes	Yes	Request clarification: Provide more information on how CFM certification provides specific knowledge of and ability to manage prohibition of fire hazards.	2009 GJTA Competency Outline	Yes
	5.4.5.Demonstrate knowledge of and ability to manage adequate ventilation of work spaces, adequate exhaust and makeup air, no short circuit designs.	Partial. Based on the review of the certification requirements, certification should provide general knowledge of air quality and ventilation but not the ability to manage adequate ventilation of work spaces, adequate exhaust and makeup air, and short circuit designs.	Yes	Yes	Yes	Yes	Yes	Request clarification: Provide more information on how CFM certification provides specific knowledge of and ability to manage adequate ventilation of work spaces, adequate exhaust and makeup air, no short circuit designs.	2009 GJTA Competency Outline	Yes
	5.4.6.Demonstrate knowledge of and ability to manage adequate cleanliness of indoor firing ranges-ventilation, cleanup of lead dust.	No, based on the review of the certification requirements, certification does not provide specific knowledge of and ability to manage adequate cleanliness of indoor firing ranges-ventilation, cleanup of lead dust.	Yes	Yes	Yes	Yes	Yes	Request clarification: Provide more information on how CFM certification provides specific knowledge of and ability to manage adequate cleanliness of indoor firing ranges-ventilation, cleanup of lead dust.	2009 GJTA Competency Outline	Yes
	5.4.7.Demonstrate knowledge of and ability to manage adequate electric vehicle battery charging stations to prevent fires (as required).	No, based on the review of the certification requirements, certification does not provide specific knowledge of and ability to manage adequate electric vehicle battery charging stations to prevent fires (as required).	Yes	Yes	Yes	Yes	Yes	Request clarification: Provide more information on how CFM certification provides specific knowledge of and ability to manage adequate electric vehicle battery charging stations to prevent fires (as required).	2009 GJTA Competency Outline	Yes
	5.4.8.Demonstrate knowledge of and ability to manage prohibition of non UL-rate unsafe electrical equipment.	No, based on the review of the certification requirements, certification does not provide specific knowledge of and ability to manage prohibition of non UL-rate unsafe electrical equipment.	Yes	Yes	Yes	Yes	Yes	Request clarification: Provide more information on how CFM certification provides specific knowledge of and ability to manage prohibition of non UL-rate unsafe electrical equipment.	2009 GJTA Competency Outline	Yes
	5.4.9.Demonstrate knowledge of and ability to manage the documentation of occupant safety and health complaints and their resolution.	Yes, based on the review of the certification requirements, the CFM should have knowledge of and ability to manage the documentation of occupant safety and health complaints and their resolution.	Yes	Yes	Yes	Yes	No		2009 GJTA Competency Outline	Yes
	5.4.10.Demonstrate knowledge of and ability to create, manage, and conduct fire and life safety and HAZMAT plans.	Yes, based on the review of the certification requirements, the CFM should have knowledge of and ability to create, manage, and conduct fire and life safety and HAZMAT plans.	Yes	Yes	Yes	Yes	Yes	Request clarification: Provide more information on how CFM certification provides specific knowledge of and ability to create, manage, and conduct fire and life safety and HAZMAT plans.	2009 GJTA Competency Outline	Yes

6. Design	6.2. Infrastructure Systems	6.2.1.Demonstrate knowledge and understanding of the design basis of all applicable Architectural and Engineering Systems.	Yes, based on the review of the certification requirements, the CFM should have knowledge and understanding of Architectural and Engineering Systems, in the Design Core Competency for FBPTA.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
7. Sustainability	7.1. Background	7.1.1."Sustainability" broadly defined as framed by High Performance Buildings in EISA 07.	Yes, based on the review of the certification requirements, the CFM should have knowledge of "Sustainability" broadly defined as framed by High Performance Buildings in EISA 07.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
	7.3. Implementation	7.3.1.Demonstrate knowledge and ability to develop and/or coordinate sustainability-related programs at the building-level.	Yes, based on the review of the certification requirements, the CFM should have knowledge of and ability to develop and coordinate sustainability-related programs at the building level.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		7.3.2.Demonstrate knowledge of how the above comes together in the Sustainability Section of the Facility Master Plan.	Yes, based on the review of the certification requirements, the CFM should have knowledge of how the above comes together in the Sustainability Section of the Facility Master Plan.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		7.3.3.Demonstrate ability to work with subject matter experts to calculate the "qualitative impacts" of sustainability program. Note: Performance 6.b.3 "SF Tool" struck to eliminate redundancy.	Yes, based on the review of the certification requirements, the CFM should have ability to work with subject matter experts to calculate the "qualitative impacts" of sustainability programs.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		7.3.4.Demonstrate knowledge of implementing a "recognition program" for sustainability efforts.	Yes, based on the review of the certification requirements, the CFM should have knowledge of implementing a "recognition program" for sustainability efforts.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
8. Water Efficiency	8.1. Regulations, Goals and Best Practices	8.1.1.Demonstrate knowledge of water efficiency principles that are applicable in both the public and private arenas.	Yes, based on the review of the certification requirements, the CFM should have knowledge of water efficiency principles that are applicable in both the public and private arenas.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		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:	Yes, based on the review of the certification requirements, the CFM should have knowledge of how the listed items affect water use and efficiency; and ability to make recommendations based on lifecycle analysis and best practices to facilities team.									
	8.2. Water Audit	8.2.1. Demonstrate knowledge and ability to conduct both a Top-down and Bottom-up water audit:	Partial. This course received credit because the course provides general knowledge of water audits. However, as the performance criteria is intended primarily for energy managers, it does not provide information at the detailed level required for an energy manager.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		9.1.1.Demonstrate ability to work in integrated project teams to execute, small, medium, and large projects. http://www.wbdg.org/project/deliveryteams.php	Yes, based on the review of the certification requirements, the CFM should have ability to work in integrated project teams.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes

9. Project Management	9.1. Initiate	9.1.2.Demonstrate knowledge and ability to follow Project Management processes and procedures per your organization's preferred methodology. http://www.wbdg.org/project/pm.php#mr	Yes, based on the review of the certification requirements, the CFM should have ability to follow project management processes and procedures.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes	
		9.1.3.If project will be completed by contractors, demonstrate the ability to provide technical support to the organization's procurement process.	Yes, based on the review of the certification requirements, the CFM should have ability to work with contractors on projects.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes	
	9.2. Execute	9.2.1.Demonstrate ability to manage and coordinate project execution. http://www.wbdg.org/project/pm.php	Yes, based on the review of the certification requirements, the CFM should have ability to perform the listed tasks.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes	
		9.2.2.Demonstrate ability to manage and coordinate contractor performance.	Yes, based on the review of the certification requirements, the CFM should have the knowledge and ability to manage the listed tasks.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes	
	9.3. Close-out	9.3.1. Demonstrate ability to manage and coordinate contractor performance.	Yes, based on the review of the certification requirements, the CFM should have the knowledge and ability to manage the listed tasks.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes	
	9.4. Training	9.4.1. Demonstrate knowledge of PM and scheduling software, where to find technical resources on PM and ability to train those junior to you in these PM aspects and on these tools.	Yes, based on the review of the certification requirements, the CFM should have knowledge of project management and scheduling software.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes	
		10.1. Total Cost of Ownership (TCO)	10.1.1.Demonstrate knowledge of the mission of the Facilities' Occupants and how the facilities enhance that mission.	Yes, based on the review of the certification requirements, the CFM should have knowledge of the mission of the occupants and how the facilities enhance that mission.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
10.1.2.Demonstrate knowledge that the TCO is best determined through Life-Cycle Cost Analysis (LCCA) for facilities. Take course - http://www.wbdg.org/education/lifecyclecosting.php			Yes, based on the review of the certification requirements, the CFM should have knowledge that TCO is best determined through LCCA.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes	
10.1.3.Demonstrate knowledge of how to find and calculate the basic costs required for an LCCA. Take course - http://www.wbdg.org/education/lifecyclecosting.php			Yes, based on the review of the certification requirements, the CFM should have knowledge of how to find and calculate costs required for an LCCA.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes	
10.1.4.Demonstrate knowledge of additional methods for calculating TCO and other economic analyses. Take course - http://www.wbdg.org/education/lifecyclecosting.php			Yes, based on the review of the certification requirements, the CFM should have knowledge of additional methods for calculating TCO.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes	
Assessment (LCA)		10.2.1.Demonstrate knowledge of the difference between a Life Cycle Assessment (LCA) and an Life-Cycle Cost Analysis (LCCA). Take course - http://www.wbdg.org/education/lifecyclecosting.php	No, based on the review of the certification requirements, certification does not require taking the listed course, nor does it require knowledge of the difference between LCA and LCCA.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes	

10. Business, Budget and Contracting	10.2. Life-Cycle Asse	10.2.2.Demonstrate knowledge and ability to use an LCA to estimate the environmental impacts of a material, product or service through its entire life cycle. Take course - http://www.wbdg.org/education/lifecyclecosting.php	No, based on the review of the certification requirements, certification does not require taking the listed course, nor does it require knowledge and ability to use an LCA to estimate environmental impacts of a material, product or service through its entire life cycle.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes	
	10.3. Contracting	10.3.5. Demonstrate knowledge of and ability to effectively govern/oversee a contract to ensure compliance and full value of the service or product being provided.	Yes, based on the review of the certification requirements, the CFM should have the knowledge and ability to effectively govern and oversee a contract.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes	
	10.4. Budget Formulation and Execution	10.4.1.Demonstrate ability to develop and manage a project/program budget.	Yes, based on the review of the certification requirements, the CFM should have the ability to develop and manage a project or program budget.	Yes	Yes	Yes	Yes	No				2009 GJTA Competency Outline	Yes
		10.4.2.Demonstrate knowledge of budget submission requirements.	Yes, based on the review of the certification requirements, the CFM should have knowledge of budget submission requirements.	Yes	Yes	Yes	Yes	No				2009 GJTA Competency Outline	Yes
		10.4.3.Demonstrate knowledge of historical budget records and costs and how to use in forecasting.	Yes, based on the review of the certification requirements, the CFM should have knowledge of historical budget records and costs and how to use them in forecasting.	Yes	Yes	Yes	Yes	No				2009 GJTA Competency Outline	Yes
		10.4.4.Demonstrate ability to quantify potential for cost savings and cost avoidance.	Yes, based on the review of the certification requirements, the CFM should have ability to quantify potential for cost savings and cost avoidance.	Yes	Yes	Yes	Yes	No				2009 GJTA Competency Outline	Yes
		10.4.6.Demonstrate ability to identify quantitative and qualitative risks.	Yes, based on the review of the certification requirements, the CFM should have ability to identify quantitative and qualitative risks.	Yes	Yes	Yes	Yes	No				2009 GJTA Competency Outline	Yes
		10.4.8.Demonstrate ability to prioritize projects or programs based on funding levels.	Yes, based on the review of the certification requirements, the CFM should have ability to prioritize projects or programs based on funding levels.	Yes	Yes	Yes	Yes	No				2009 GJTA Competency Outline	Yes
		10.4.9.Demonstrate ability to manage operating budget and produce required financial reports.	Yes, based on the review of the certification requirements, the CFM should have ability to manage operating budgets and produce required financial reports.	Yes	Yes	Yes	Yes	No				2009 GJTA Competency Outline	Yes
		10.4.10. Demonstrate knowledge of invoice/expenditure approval processes.	Yes, based on the review of the certification requirements, the CFM should have knowledge of invoice and expenditure approval processes.	Yes	Yes	Yes	Yes	No				2009 GJTA Competency Outline	Yes
		10.4.11. Demonstrate ability to recommend and conduct funding reallocation based on changing priorities.	Yes, based on the review of the certification requirements, the CFM should have ability to recommend and conduct funding reallocation based on changing priorities.	Yes	Yes	Yes	Yes	No				2009 GJTA Competency Outline	Yes
		10.4.12. Demonstrate ability to conduct periodic financial reviews and produce required reports.	Yes, based on the review of the certification requirements, the CFM should have ability to conduct periodic financial reviews and produce required reports.	Yes	Yes	Yes	Yes	No				2009 GJTA Competency Outline	Yes

11. Leadership and Innovation	11.1. Communication and Administration	11.1.1. Demonstrate ability to communicate clearly.	Yes, based on the review of the certification requirements, the CFM should have the ability to communicate clearly.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		11.1.2. Demonstrate ability to supervise personnel as required.	Yes, based on the review of the certification requirements, the CFM should have the ability to supervise personnel as required.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		11.1.3. Demonstrate ability to perform administrative duties.	Yes, based on the review of the certification requirements, the CFM should have the ability to perform administrative duties.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
	11.2. Personnel	11.2.1. Demonstrate knowledge and ability to ensure corporate, life safety, and regulatory compliance.	Yes, based on the review of the certification requirements, the CFM should have knowledge and ability to ensure corporate, life safety, and regulatory compliance.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		11.2.2. Demonstrate knowledge and ability to develop, test and train personnel on emergency systems, plans and procedures.	Yes, based on the review of the certification requirements, the CFM should have knowledge and ability to develop, test and train personnel on emergency systems, plans and procedures.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
	11.3. Innovation	11.3.1. Demonstrate knowledge and ability to investigate ways to improve facility services.	Yes, based on the review of the certification requirements, the CFM should have knowledge and ability to investigate ways to improve facility services.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		11.3.2. Demonstrate knowledge and ability to assess risks and opportunities.	Yes, based on the review of the certification requirements, the CFM should have knowledge and ability to assess risks and opportunities.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		11.3.3. Demonstrate knowledge and ability to conduct pilot tests when developing new procedures.	Yes, based on the review of the certification requirements, the CFM should have knowledge and ability to conduct pilot tests when developing new procedures.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		11.3.7. Demonstrate knowledge of GSA's Green Proving Ground Program - http://www.gsa.gov/portal/category/102491	No, based on the review of the certification requirements, certification does not require specific knowledge of GSA's Green Proving Ground Program.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		11.3.10. Demonstrate ability to translate innovative ideas into actionable tasks.	Yes, based on the review of the certification requirements, the CFM should have the ability to translate innovative ideas into actionable tasks.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
	Strategic Decision Making	11.4.3. Demonstrate knowledge and ability to drive a "Change Management" process - a structured approach to shifting/transitioning individuals, teams, and organizations from a current state to a desired future state.	Yes, based on the review of the certification requirements, the CFM should have knowledge and ability to drive a "Change Management" process - a structured approach to shifting/transitioning individuals, teams, and organizations from a current state to a desired future state.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
		11.4.4. Demonstrate knowledge and ability to move from the Operational (the who and when of things getting done) to Tactical (what we do) to the Strategic (why we do what we do).	Yes, based on the review of the certification requirements, the CFM should have knowledge and ability to move from the operational to the tactical and strategic.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes

12.3. Establishment and Ir	12.3.6. Demonstrate knowledge of how to combine single building metrics into a system to measure the performance of buildings portfolio in support of the organization's overall mission.	Yes, based on the review of the certification requirements, the CFM should have knowledge of how to combine single building metrics into a system to measure the performance of buildings portfolio in support of the organization's overall mission.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
	12.3.7. Demonstrate understanding that investments in training, and in facilities in general, are not often immediately visible or measurable, but that they are manifest over a period of years.	Yes, based on the review of the certification requirements, the CFM should have an understanding that investments in training and in facilities manifest over a period of years.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
	12.3.9. Demonstrate knowledge of current portfolio-level performance indicators.	Yes, based on the review of the certification requirements, the CFM should have knowledge of current portfolio-level performance indicators.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
	12.3.10. Demonstrate ability to understand a base set of key performance indicators for measuring the outcomes of investments and the data required for them.	Yes, based on the review of the certification requirements, the CFM should have the ability to understand a base set of key performance indicators.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes
	12.3.11. Demonstrate ability to understand, provide input for, and use additional key performance indicators (KPIs) developed by organization to measure the qualitative aspects of facilities operations and management: REVIEW - http://www.wbdg.org/resources/fpe.php?r=engage_process	Yes, based on the review of the certification requirements, the CFM should have the ability to understand, provide input for, and use additional (KPI) developed by organization to measure the qualitative aspects of facilities operations and management.	Yes	Yes	Yes	Yes	No			2009 GJTA Competency Outline	Yes