

PROJECT MANAGEMENT PERSONNELL CERTIFICATION

Budget, Finance, and Award Management

Large Facilities Office

May, 26 2016



Large Facilities Workshop 2016
S. Dillon Ripley Center
Washington, D.C.

NATIONAL ACADEMY OF PUBLIC ADMINISTRATION



USE OF COOPERATIVE AGREEMENTS TO SUPPORT LARGE SCALE INVESTMENT IN RESEARCH DECEMBER 17, 2015

RECOMMENDATION 6.8





"To ensure that award recipients have the requisite project management experience and knowledge to successfully lead a MREFC project"



"NSF should require award recipient project managers to be certified in project management. NSF should also specify minimum project management experience thresholds for project positions."



KEY PERSONNEL

"NSF POs and G/AOs should work together to include **project**management certification and requisite experience requirements in cooperative agreements for MREFC projects."



NAPA LIKES AND DISLIKES AND NSF PLANS



Likes -	Dislikes -	NSF Plans -		
	Agreements do not include certification requirements	Include qualifications requirements in agreements		
PO and G/AO review key personnel		NSF would confirm qualifications		

QUESTIONS



- How do training (i.e., certificates) and certification differ in terms of costs and benefits?
- Which roles on a project should demonstrate adequate qualifications?
 - Project manager only?
 - Others?
- When would NSF require experience above and beyond that required by certifications?
- What approach should NSF take to establishing equivalence?

CERTIFICATES VS. CERTIFICATION



Certificates

- Documentation of completion of a short course in a particular subject
- Number of classes prescribed
 - Core &
 - Elective
- Offered through universities
- Online or in person
- High first costs but no ongoing costs

Certification

- Designation earned by an individual demonstrating attainment of a standard level of expertise, experience, and skills within the subject field.
- Applicants must have certain experience or other qualifications.
- Typically require passing an examination.
- Variable first and ongoing costs
 - Prep class?
 - Continuing professional development?

CERTIFICATES VS. CERTIFICATION



Certificates		Certification			
Pros	University-basedCustomizableOnline or in person	 Uniform requirements Recognizable 2 – 4 months 			
Cons	 No experience needed Not standardized Not recognizable 6 months – 2 years 	 General experience accepted Passing a standardized test Test preparation What else?			

Note: The Uniform Guidance (2 CFR § 200.472 Training and education costs) states:

"The cost of training and education provided for employee development is allowable."

CERTIFICATES

NSF

- What must coursework include?
 - Fundamentals
 - Scoping
 - Scheduling
 - Budgeting
 - Accounting
 - Law
 - Managing teams
 - Cost control
 - Risk
 - Performance measurement



not
endorse
specific
providers



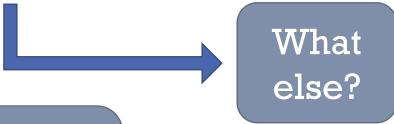


CERTIFICATION



- What should NSF consider in setting minimum standards?
 - Knowledge Base
 - Experience (quantity not quality)
 - Cost (to obtain and maintain)
 - Time (to obtain and maintain)
 - Reputation and Notoriety





NOTE

NSF will **not** endorse specific providers



CERTIFICATION



Prioritization Exercise

	Knowledge Base	Experience	Cost	Time to obtain	Reputation		
Knowledge Base		:	:	:	:	:	:
Experience	:		:	:	:	:	:
Cost	:	:		:	:	:	:
Time to obtain	:	:	:		:	:	:
Reputation	:	:	:	:		:	:
	:	:	:	:	:		:
	:	:	:	:	:	:	

WHO? PROJECT MANAGERS & OTHERS?





- OR -



Project manager only

- 1. Project manager
- 2. Schedulers
- 3. Cost estimators
- 4. Systems engineers
- 5. Project controllers
- 6. Quality managers
- 7. Risk managers



EXPERIENCE AND CERTIFICATION



- Rest assured . . . projects will remain responsible for personnel actions -
 - Selections
 - Releases
- For this slide's discussion, assume that NSF sets a certification requirement <u>without</u> a certificate option.
- Would an analogous experience requirement over and above the experience required by a certification help projects?

05/26/2016

EQUIVALENCE



Certifications

No equivalence issue. Certification requirements meet NSF requirements or not.

Certificates

No equivalence issue. Classes taken meet NSF requirements or not.

Experience

Equivalence issue. How will NSF establish equivalence?

Professional judgement by -

By whom?

Program Officer?

NSF Internal Panel?

External Panel?

By when?

Stage gate reviews?

Routine reviews?

As needed?

NEXT STEPS



- Slides posted on the workshop Web page
- Notes from the session included in the workshop proceedings
- NSF will hold internal discussions and may follow up with the community
- The Large Facilities Manual (18-XX) will identify options and criteria –
 - NSF will publish a public comment draft in April 2017 with comments accepted for three months
 - NSF will publish the final Large Facilities Manual in October 2017 to take effect in January 2018.

For more information:

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> Certification Providers

PROJECT MANAGEMENT CERTIFICATIONS





Project Management Professional





Certified Project Manager



Professional in Project Management



Master Project Manager



Certified Project Manager



Advancing Professional Construction and Program Management Worldwide

Certified Construction Manager

COST ESTIMATING AND ENGINEERING





Certified Cost Estimator/ Analyst



Certified Estimating Professional

Certified Cost Professional



Certified Professional Estimator

PROJECT CONTROLS (SCHEDULING & EV)





Scheduling Professional



Project Scheduling Professional

Earned Value Professional



Certified Project Control Officer

Earned Value Management Professional

SYSTEM ENGINEERING CERTIFICATION





Certified System Engineering Professional

QUALITY ASSURANCE AND CONTROL





ISO 9001 Certified Internal Auditor



Certified Manager of Quality

Certified Quality Engineer

RISK MANAGEMENT CERTIFICATIONS





Risk Management Professional





Certified Risk and Crisis Manager

Large Facilities Workshop

