



Calhoun: The NPS Institutional Archive

DSpace Repository

Acquisition Research Program

Faculty and Researchers' Publications

2022-05-06

Program Management versus Portfolio Management in Defense Acquisition

Mortlock, Robert F.; Jones, Raymond; Stewart, Conor; Deitrich, Adam; Reid, Jordan

Monterey, California. Naval Postgraduate School

http://hdl.handle.net/10945/70292

This publication is a work of the U.S. Government as defined in Title 17, United States Code, Section 101. Copyright protection is not available for this work in the United States.

Downloaded from NPS Archive: Calhoun



Calhoun is the Naval Postgraduate School's public access digital repository for research materials and institutional publications created by the NPS community. Calhoun is named for Professor of Mathematics Guy K. Calhoun, NPS's first appointed -- and published -- scholarly author.

> Dudley Knox Library / Naval Postgraduate School 411 Dyer Road / 1 University Circle Monterey, California USA 93943

http://www.nps.edu/library



Program Management versus Portfolio Management in Defense Acquisition

Lead Author: Dr. Robert F. Mortlock

Co-Author: Professor of Practice Raymond D. Jones

Student Researchers: Major Conor W. Stewart USMC, Major

Adam T. Deitrich USMC, Major Jordan M. Reid USMC



Introduction

- The FY21 NDAA established portfolio management as the required management process for the acquisition of defense weapons systems to reduce cost and increase acquisitions efficiency, with full implementation expected by 2023.
- Additionally, the FY2021 NDAA orders the secretary of defense to implement a "third-party accredited [certification] program based on national or international recognized standards" for all acquisition career fields.



Research Questions

 Challenge: How does DoD acquisition move from a program-centric approach to a portfolio-centric approach?

Research Questions:

- 1. Are there gaps in the DoD PM competency standards that must be addressed before the DoD can fully implement portfolio management as directed in the NDAA of 2021?
- 2. Where are the DoD and Project Management Institute (PMI) aligned regarding competency standards?
- 3. What barriers exist regarding the implementation of portfolio management standards for Defense acquisitions?

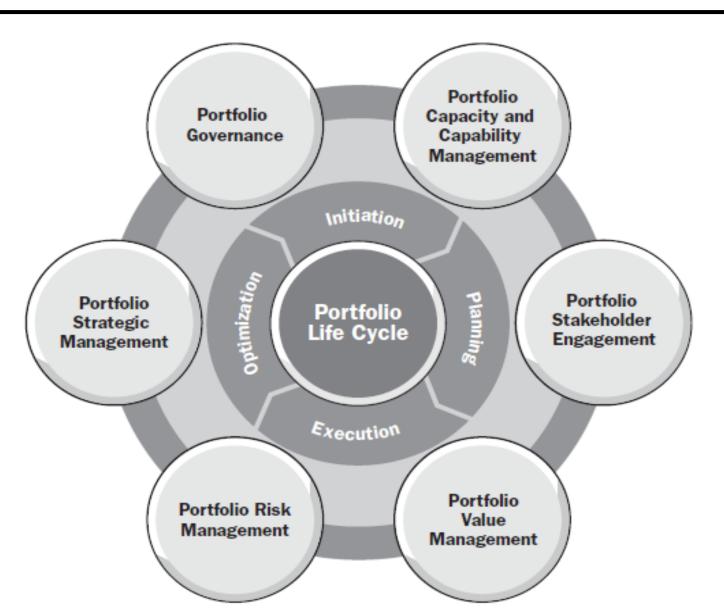


Industry Standards

- Project Management Institute (PMI)
 - Project Management Professional (PMP): Guide to the Project Management Body of Knowledge® (PMBOK Guide)
 - Program Management Professional (PgMP): The Standard for Program Management (TSPgM)
 - Portfolio Management Professional (PfMP):
 The Standard for Portfolio Management (TSPfM)



Industry TSPfM Standard





Industry TSPfM Standard

Tasks	Communications Management (15%)			
Task 1	Analyze internal and external stakeholders using techniques such as meetings, interviews, surveys/questionnaires, in order to identify stakeholder expectations, interests, and influence on the success of the portfolio.			
Task 2	Create the aggregate communication strategy and plan, including methods, recipients, vehicles, timelines and frequencies in order to enable effective communication to stakeholders.			
Task 3	Engage stakeholders, through oral and written communication, to ensure awareness, manage expectations, foster support, and build relationships and collaboration for the success of the portfolio roadmap.			
Task 4	Maintain the communication strategy and plan by evaluating current communications capabilities, identifying gaps, and documenting communications plan to meet stakeholder requirements.			
Task 5	Prepare and/or facilitate stakeholder understanding of portfolio management-related processes, procedures, and protocols using organizational assets (e.g., information systems, training delivery methods) in order to promote common understanding and application of the portfolio management process.			
Task 6	Verify accuracy, consistency, and completeness of portfolio communication, utilizing governance guidelines, to maintain credibility and satisfaction with all stakeholders.			



DoD PM Competencies

- DoD Program
 Management functional career field categories:
 - —AcquisitionManagement
 - —Business Management
 - —Technical Management
 - —Executive Leadership
- 18 units of competency and 70 specific competencies

Acquisit	Technical		
Managen		Management	
Capability Integration Planning	Program Execution	Engineering Management	
Requirements Management (Mgmt)	Risk/Opportunity Mgmt	Technical Planning	
Acquisition Program Strategic Planning	Program Planning	Requirements Decomposition	
Business Case Development	Teaming	Technical Assessment	
Acquisition Law and Policy	Program Oversight	Decision Analysis	
Acquisition Policy and Best Practice	Resource Mgmt	Configuration Mgmt	
Contractual Laws, Regulations, and Obligations	Technology Mgmt	Technical Data Mgmt Interface Mgmt	
Financial Mgmt Laws, Directives, and Policies	Services Acquisition		
Program Support Laws, Directives, and Policies	Business Management	Defense Business Systems	
Technical and Engineering Laws, Directives and Policies	Contract Management	DBS Certification	
Information Technology Laws, Policy, Best Practices	Market Research	DBS Acquisition Approach Preparation	
International Acquisition and Exportability	Pre-Solicitation Planning and Execution	Test and Evaluation Mgmt	
International Cooperative Programs	Source Selection and Negotiations	Test Planning	
Sales and Transfers	Contract Administration	Test Execution	
Technology Security and Foreign Disclosure	Contract Closeout	Manufacturing Mgmt	
Defense Exportability Integration	Financial Mgmt	Manufacturing Planning and Transition	
	Financial Planning	Manufacturing Shutdown	
Stakeholder Mgmt	Programming	Product Support Mgmt	
Political Savvy	Budget Formulation	Product Support Planning	
External Situational Awareness	Budget Execution	Product Support Mgmt	
Media Relationships	Cost estimates	Supply Chain Mgmt	
	Executive Leadership		
Foundational Competencies	Leading Change	Results Driven	
Interpersonal Skills	Creativity & Innovation	Accountability	
Integrity / Honesty	Vision	Decisiveness	
Communicate Effectively	Flexibility	Entrepreneurship	
Continual Learning	Resilience	Customer Service	
Public Service Motivation	Leading People	Problem Solving	
Technical Credibility	Conflict Management		
Building Coalitions	Leveraging Diversity		
Influencing / Negotiating	Developing Others		
Partnering	Team Building		



Domain 5: Communications Management							
Task#	Task	UOC	Competency	Alignment Score	100%		
1	Analyze internal and external stakeholders using techniques such as meetings, interviews, surveys/questionnaires, in order to identify stakeholder expectations, interests, and influence on the success of the portfolio.	AM3	Organize, manage, coach, lead and evaluate program teams (working groups, IPTs, project-oriented teams, support contractor teams, system integrator/supplier teams) to maximize efficiency within the program/portfolio.	1			
2	Create the aggregate communication strategy and plan, including methods, recipients, vehicles, timelines and frequencies in order to enable effective communication to stakeholders.	AM4	Maintain awareness of the environment external to an acquisition program simultaneously from (including) historical, current, and future perspectives. Apply the media related policies contained in Agency directives/publications in addressing public affairs.	1			
3	Engage stakeholders, through oral and written communication, to ensure awareness, manage expectations, foster support, and build relationships and collaboration for the success of the portfolio roadmap.		(Communicate Effectively) Plan for the dissemination of information both internally and externally with emphasis on ensuring all work groups, project oriented teams, IPPTs, PM Staff and several layers of contractor/sub-contractor employees have comprehensive macro view of the program priorities	1			
4	Maintain the communication strategy and plan by evaluating current communications capabilities, identifying gaps, and documenting communications plan to meet stakeholder requirements.	EL1	Write in a clear, concise, organized, and convincing manner for the intended audience. Make clear and convincing oral presentations. Listen effectively; clarify information as needed.	1			
5	Prepare and/or facilitate stakeholder understanding of portfolio management[1] related processes, procedures, and protocols using organizational assets (e.g., information systems, training delivery methods) in order to promote common understanding and application of the portfolio management process.		4. Share & communicate lessons learned. Explain how process improvements at the macro level translate into improved operational effectiveness. 5. Pursue chances to stretch skills to further professional growth to include using challenges as opportunities to	1			
6	Verify accuracy, consistency, and completeness of portfolio communication, utilizing governance guidelines, to maintain credibility and satisfaction with all stakeholders.		improve and become more effective.	1			



Domain	Alignment Score	Exam Weight
Strategic Alignment	19%	25%
Governance	0%	20%
Portfolio Performance	35%	25%
Portfolio Risk Management	50%	15%
Communications Management	100%	15%
Average Alignment	41%	36%







	BTI Rating by Domain and Task						
Dom	ain 1: Strategic Ali	gnment	Do	main 4: Risk Mana	gement		
Task#	Alignment Score	BTI Rating	Task #	Alignment Score	BTI Rating		
1	50%	1	1	100%	1		
2	0%	2	2	100%	1		
3	0%	2	3	0%	2		
4	50%	2	4	0%	1		
5	0%	1	5	100%	1		
6	0%	1	6	0%	2		
7	0%	2	Ave	erage BTI Rating	1.33		
8	50%	2	Do	omain 5:Communi	cations		
Ave	rage BTI Rating	1.63	Task #	Alignment Score	BTI Rating		
D	omain 2: Governa	nce	1	100%	0		
Task #	Alignment Score	BTI Rating	2	100%	0		
1	0%	3	3	100%	0		
2	0%	3	4	100%	0		
3	0%	3	5	100%	0		
4	0%	3	6	100%	0		
5	0%	3	Average BTI Rating		0.00		
Average BTI Rating		3.00					
Domai	in 3: Portfolio Perf	ormance					
Task #	Alignment Score	BTI Rating					
1	0%	2					
2	50%	1					
3	100%	1					
4	100%	1					
5	100%	1					
6	0%	2					
7	0%	1					
8	0%	2					
9	0%	1					
10	0%	2					
Average BTI Rating		1.30					



- 1. Are there gaps in the DoD PM competency standards that must be addressed before the DoD can fully implement portfolio management as directed in the NDAA of 2021?
 - Significant gaps in Governance Domain
 - DoD has no definition of portfolio managers' authorities, roles, and responsibilities
 - Portfolio management plan includes authoritative thresholds, risk tolerance levels, key performance indicators, prioritization models, and escalation procedures within each portfolio



- 1. Are there gaps in the DoD PM competency standards that must be addressed before the DoD can fully implement portfolio management as directed in the NDAA of 2021?
 - Significant gaps in Strategic Alignment
 - DoD has no structure, protocols, authorities, and procedures to align portfolios with organizational goals
 - Portfolio managers to set prioritization criteria using analytical decision-making tools, resulting in a portfolio road map used to budget, plan, and execute.

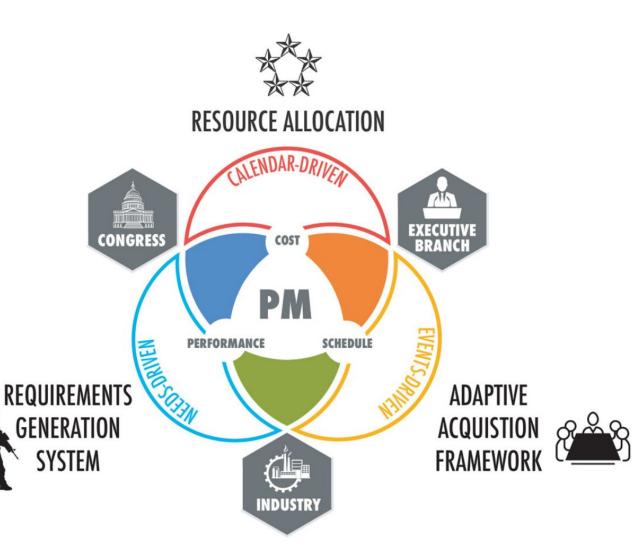


- 2. Where are the DoD and Project Management Institute (PMI) aligned regarding competency standards?
 - The DoD and PMI standards were fully aligned in the domain of *Communications Management*.
 - Risk Management was partially aligned—DoD lacks standards for stove-piped programs to synchronize risk across adjacent programs.
 - Portfolio Performance was partially aligned—DoD lacks portfolio road maps to balance and optimize resources and analyze portfolio performance against strategic goals.



3. What barriers exist for portfolio management standards in Defense acquisitions?

Governance Domain





Recommendations

1. Consider Portfolio Manager as a distinct career field requiring *PfMP* certifications.

2. Consider the following:

Portfolio Acquisition Executive (PAE) Construct



Acquisition Portfolio Baseline (APfB)



Program and budget to Portfolio Elements (PfE)



Portfolio Requirements Document (PfRD)

