Introduction

PMI Standard & Guidelines

Recap

Key Characteristics of Projects

Non-routine, Specific deliverables / Outcome, Time restrictions, Many tasks, Coordinated

Special Factors in Software Projects

Invisibility, Complexity, Flexibility

Key Terms & Concepts:

• Outcome
Focus on Benefit / Value

Focus on Benefit / Value

Product

End Item, Component Item

Project

Product, Service, Results

Program

Related Projects + Sub Programs

Portfolio

Projects+ Programs + Sub Portfolios + Operations Project Management

Application of knowledge, skills, tools, and techniques to meet project requirements

Project Manager

Responsible

Project Team

Individuals performing the work

System for Value Delivery

A collection of strategic business activities aimed at building, sustaining, and/or advancing an organization.

Value

Different stakeholders perceive value in different ways

Project Management

The application of **knowledge**, **skills**, **tools**, and **techniques** to project activities to meet project requirements.

REMEMBER:

A software project is not just concerned with the actual writing of software.

Project Management

Which Knowledge, Skills, Tools, and Techniques



Project Management Institute (PMI)

- The Project Management Institute (PMI) is a US nonprofit professional organization for project management.
 - The PMI provides services including the development of standards, research, education, publication, networking-opportunities in local chapters, hosting conferences and training seminars, and providing accreditation in project management.
 - PMBOK® Guide: the Project Management Book of Knowledge from which PMI defines terms, standards, and good practices
- Learn More: http://www.pmi.org

PMBOK® Editions

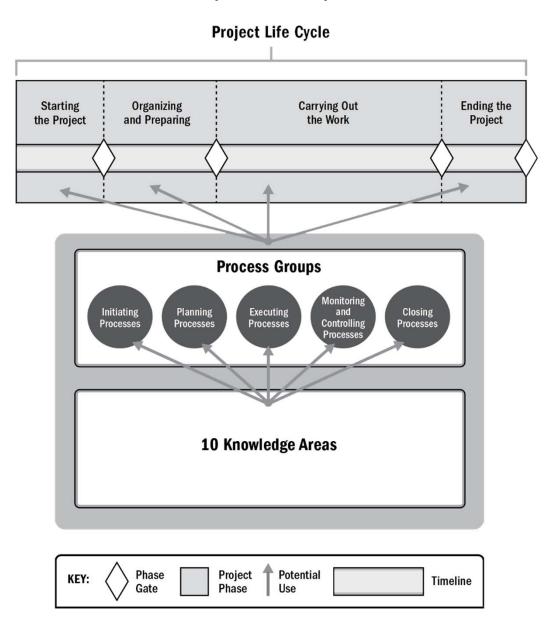
Past Editions: Based on <u>process groups & knowledge areas</u> for the project manager



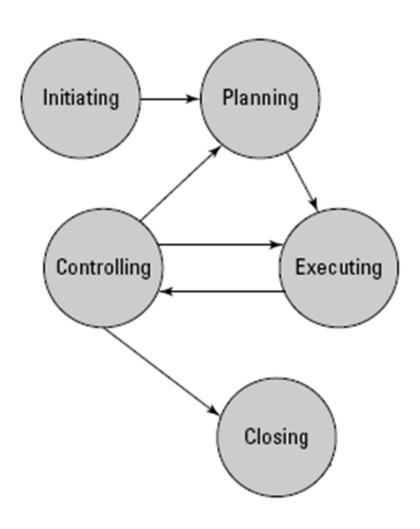
2017 - 6th Edition:

- Like previous edition PMBOK® 6 includes a Standard & Guide
- It also included Agile Practice Guide that provides information on how to implement its approaches in agile environments

(PMBOK® 6)



(PMBOK® 6 – Process Groups)



(PMBOK® 6)

Process Groups

- 1. Initiating
- 2. Planning
- 3. Executing
- 4. Controlling
- 5. Closing

Knowledge Areas

- 1. Integration Management
- 2. Scope Management
- 3. Schedule Management
- 4. Cost Management
- 5. Quality Management
- 6. Resources Management
- 7. Communications Management
- 8. Risk Management
- 9. Procurement Management
- 10. Stakeholder Management

PMBOK® 7

7th Edition: Based on <u>principles & performance domains</u> for the project team

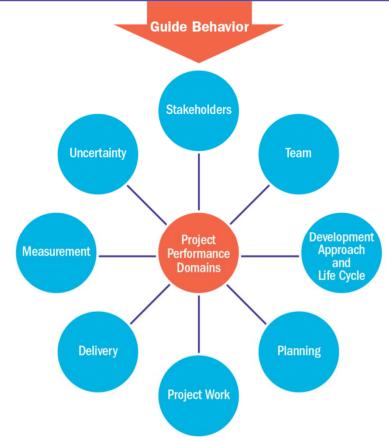


Major Revision

 The degree of change with the PMBOK® Guide – Seventh edition is more significant than what we have seen in the past.

(PMBOK® 7)

Principles of Project Management			
Be a diligent, respectful, and caring steward	Create a collaborative team environment	Effectively engage with stakeholders	Focus on value
Recognize, evaluate, and respond to system interactions	Demonstrate leadership behaviors	Tailor based on context	Build quality into processes and deliverables
Navigate complexity	Optimize risk responses	Embrace adaptability and resiliency	Enable change to achieve the envisioned future state



(PMBOK® 7)

Principles

- 1. Be a Diligent, Respectful, and Caring **Steward**
- 2. Create a Collaborative Project **Team** Environment
- 3. Effectively Engage with **Stakeholders**
- 4. Focus on Value
- 5. Recognize, Evaluate, and Respond to **System** Interactions
- 6. Demonstrate **Leadership** Behaviors
- 7. Tailor Based on Context
- 8. Build **Quality** into Processes and Deliverables
- 9. Navigate **Complexity**
- 10. Optimize Risk Responses
- 11. Embrace Adaptability and Resiliency
- 12. Enable **Change** to Achieve the Envisioned Future State

Performance Domains

- 1. Stakeholders
- 2. Team
- 3. Development Approach and Life Cycle
- 4. Planning
- 5. Project Work
- 6. Delivery
- 7. Measurement
- 8. Uncertainty

PMBOK® 6 -vs- PMBOK® 7

- PMBOK 6th Edition was supposed to be project manager-centric, the new PMBOK 7th edition is project team-centric.
- The standard moves from processes to twelve principles.
- The guide moves from **Knowledge Areas** to eight **Project Performance Domains** defined as groups of related activities that are critical for the effective delivery of project outcomes.
- Can we still use Process Groups and Knowledge Areas?
 - Yes. In fact, the Process Groups is one of the models in the Models, Methods, and Artifacts section of the guide.

Summary

- Project Management Institute (PMI)
- PMBOK® Guide
- PMBOK® 6
 - PMI Process Groups
 - PMI Knowledge Areas
- PMBOK® 7
 - Principles of Project Management
 - Project Performance Domains
- PMBOK® 6 -vs- PMBOK® 7

Q & A