Understanding Before Doing Workshop

Introduction to Project Management

Session #3

May 8, 2024



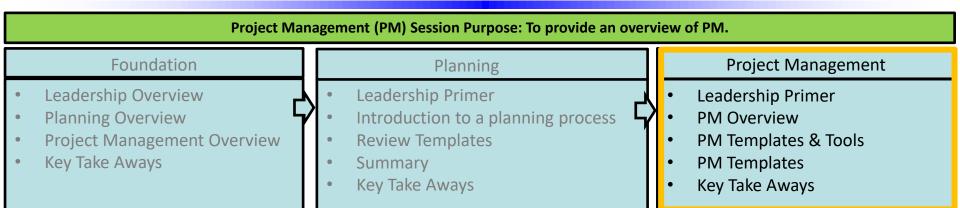


Agenda

- Workshop Framework
- References
- Review Creating a Culture of Success (Leadership)
- Where we are in the planning process
- Introduction to Project Management
- Key Take Aways
- Discussion
- Questions

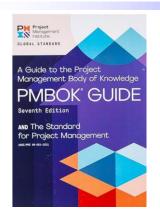


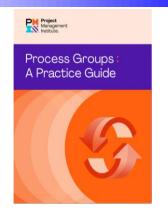
Workshop Framework

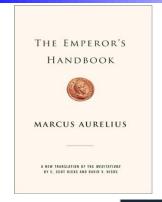




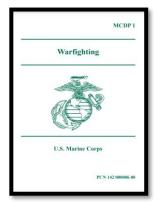
References

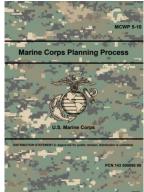


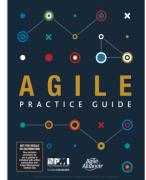














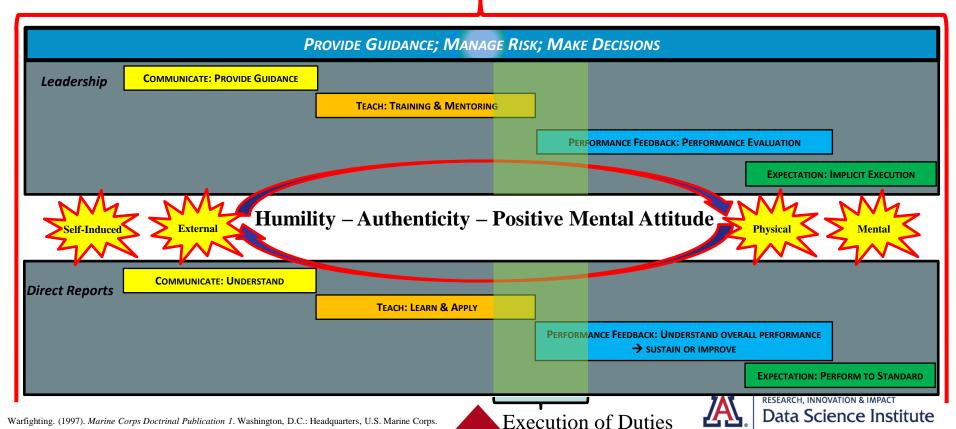
Creating a Culture of Success





Lead Where You Are

Consistency, Persistence, Energy, & Patience



Creating a Culture of Success

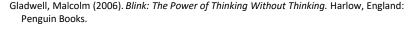
Challenges

- Conflict Management
- Biases
- Professional Insecurity

Recommended Actions

- Emotional Intelligence
- Be Engaged & Be Involved
- "Lead People & Manage Things" Mentality





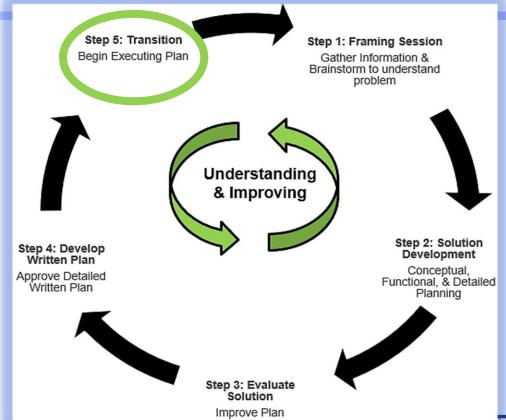


Where we are in the planning process



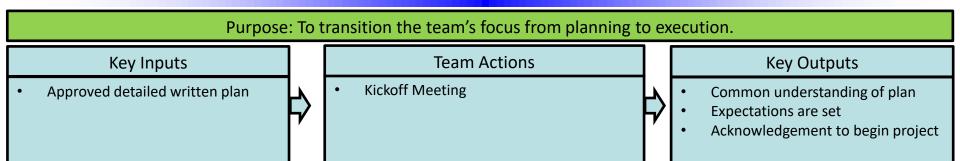


A Planning Process





Planning Process Step Five: Transition





Project Management Overview





Definition of Project Management

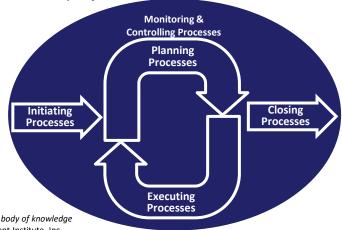
Project Management is the application of knowledge, skills, tools, and techniques to project activities to meet the project requirements (*PMBOK Guide*, 7th Edition)

Project Management Process Groups: Initiating; Planning; Executing;
 Monitoring & Controlling; Closing (PMBOK Guide, 7th Edition)



Project Management Process Groups

- Initiating: Acknowledge the project will begin, grant approval to commit the organization's resources to working on the project.
- ▶ Planning: Formulate and revise project goals and objectives and create project plans.
- **Executing**: Put the project plans into action.
- Monitoring & Controlling: Measure and analyze performance to determine if the project is staying true to the project plan.
- Closing: Bring formal, orderly end to a project.





The standard for project management and a guide to the project management body of knowledge (PMBOK), Seventh Edition. (2021). Newtown Square, PA, Project Management Institute, Inc.

Why Project Management is Important?

Helps a team organize monitoring & controlling of tasks and deliverables from executing phase to close phase.





Project Team





Example Project Key Personnel – Lab or Project

Jane Hunter, PhD Legend: Michael Dake, MD Stakeholders (VP, Strategic Coord: (SVP for UAHS) Initiatives, UA) Direct: Admin: ••••• Nirav Merchant, DSI **UAHS 5.3** Mariette Marsh Leadership Team Maliaca Oxnam (HIPAA Privacy Jeremy Frumkin - UITS (Deputy DSI) Program) Program Manager / Rudy Salcido Ryan Duitman PM UAHS 5.3 & Scrum Master (Technical PM) DSF Program Coord. List of Planners *Tina Johnson, Website Lead, DSI Project Team / *Vern Pilling, Director, Biomedical Informatics Services *Sarah Roberts, Discovery Env. Lead, CyVerse Planners *Todd Merritt, UITS RT *Jason Sullivan, UITS NetOps *Will Stoltz, Systems Admin *John-Amos Stompoly, Research Consultant *Edwin Skidmore, Dir., Infrastructure, CvVerse *Andy Edmonds, System Admin, CyVerse

*Jim Davis, Infrastructure Services Manager, DSI

PRESEARCH, INNOVATION & IMPACT

Data Science Institute

*Doug Cromey, Imaging SME *Chidi Ugonna, XNAT SME *Artin Majdi, DSI, XNAT

*Tony Edgin, Data Engineer, CyVerse

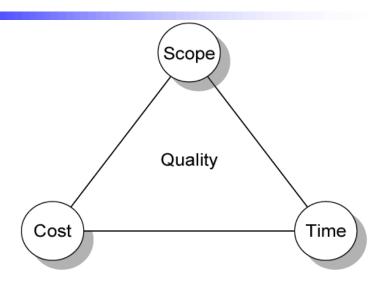
Project Management Considerations

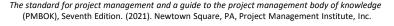




Project Considerations

- Project Scope
- Time constraints
- Budget (Cost)
- Strategic importance
- Need for innovation
- Complexity (number of external agencies)
- Stability of resource requirements
- Need for integration (number of departments involved)







Organization Considerations

How important is the project to the department's success?

What percentage of core work involves projects?

What level of resources (human and physical) are available?



Project Management Methodologies

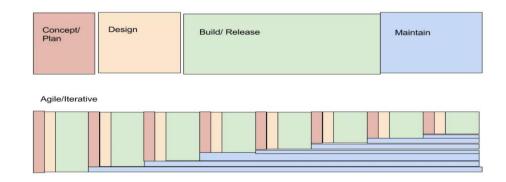




Different Project Management Methodologies

Predictive

- Manufacturing
- Construction
- Some reference as waterfall or traditional



Agile

- Software Development
- Agile methodology tailored for projects (i.e., Scrum, LabScru

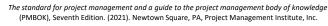
| Characteristics | | | | |
|-----------------|--------------|-----------------------------------------|-----------------------------|-----------------------------------------------------------|
| Approach | Requirements | Activities | Delivery | Goal |
| Predictive | Fixed | Performed once for the entire project | Single delivery | Manage cost |
| Iterative | Dynamic | Repeated until correct | Single delivery | Correctness of solution |
| Incremental | Dynamic | Performed once for a given increment | Frequent smaller deliveries | Speed |
| Agile | Dynamic | Repeated until correct | Frequent small deliveries | Customer value via frequent deliveries and feedback |

Table 3-1. Characteristics of Four Categories of Life Cycles

Hybrid

Mix between agile & predictive

Agile Practice Guide (2017). Newtown Square, PA, Project Management Institute, Inc.





Expectation Management





Project Management Expectations

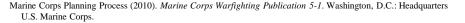
Helps with tracking tasks, milestone achievement, schedules, critical due dates, overall project timeline

Helps with managing resources and budget (costs)

Helps with communication across stakeholders, project management team, and project team

Helps with facilitating collaboration and timely accomplishment of tasks



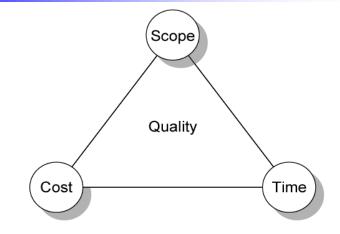


Project Management Limitations

Does not substitute effective leadership

Does not substitute proper planning

Does not substitute sound judgment



Does not substitute decision making across the project management team





Project Management Templates & Tools





Project Management Templates

- Gantt Chart
- Work Breakdown Structure (WBS)
- Responsible, Accountable, Consulted, Informed (RACI) Matrix
- Project Tracker
- Project Plan
- Project Roles & Responsibilities

Link to the above PM Templates:

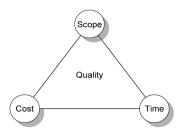
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Project Management Software & Tools

- Asana (for collaboration project tracking)
- Microsoft 365 (easy to use comprehensive project management tool)
- Smartsheet (easy to use project management tool)
- Jira Software (agile style project management)
- Trello (create visual templates, i.e., Kanban boards, cards, checklists)
- Many more.....

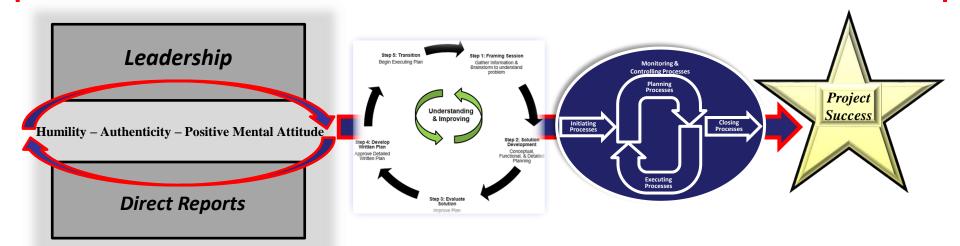




Lead Where You Are

Consistency, Persistence, Energy, & Patience

PROVIDE GUIDANCE; MANAGE RISK; MAKE DECISIONS



Marine Corps Planning Process (2010). *Marine Corps Warfighting Publication 5-1*. Washington, D.C.: Headquarters U.S. Marine Corps.



Key Takeaways

- Leadership is responsible for creating the work environment for their teams to thrive and achieve productive dialogue, cooperation, collaboration, & critical thinking.
- Leaders & Team Members must **understand** their role & take **ownership** of their contributions for project success.

- Project Management does not think for you.
- 'Understanding Before Doing' is continuous throughout planning & during execution.



Discussion





Discussion Questions

Provide a leadership example or leadership attribute you can implement immediately to enhance cooperation, collaboration, and communication across your team?

Why is it leadership important to project success?

How can planning help you in developing effective project plans in the future?

What project management software or tools can you implement in current or future projects to help achieve project success?



Questions



