Software Management Process Groups

WEEK 42 LECTURE 7&8

Today's Objective

Discuss the Software Management Process Groups

- Initiating processes
- Planning processes
- Executing processes
- Monitoring and controlling processes
- Closing processes

- A **process** is a series of actions directed toward a particular result
- Project management can be viewed as a number of interlinked processes
- The project management process groups include:
 - Initiating processes
 - Planning processes
 - Executing processes
 - Monitoring and controlling processes
 - Closing processes

Initiating Process Group

Defines and authorizes the project or a project phase

Planning Process Group

• Defines and refines objectives, and plans the course of action required to attain the objectives and scope that the project was undertaken to address

Executing Process Group

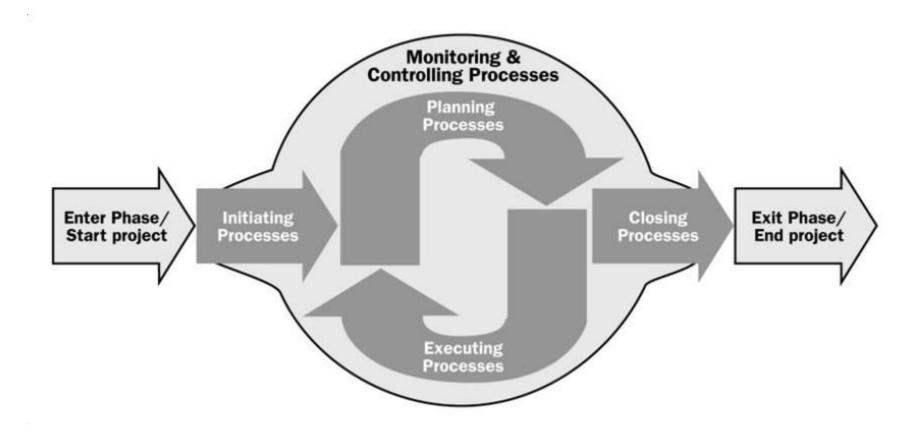
• Integrates people and other resources to carry out the project management plan for the project.

Monitoring and Controlling Process Group

• Regularly measures and monitors progress to identify variances from the project management plan so that corrective action can be taken when necessary, to meet project objectives

Closing Process Group

• Formalizes acceptance of the product, services or result and brings the project or a project phase to an orderly end.



Process Groups

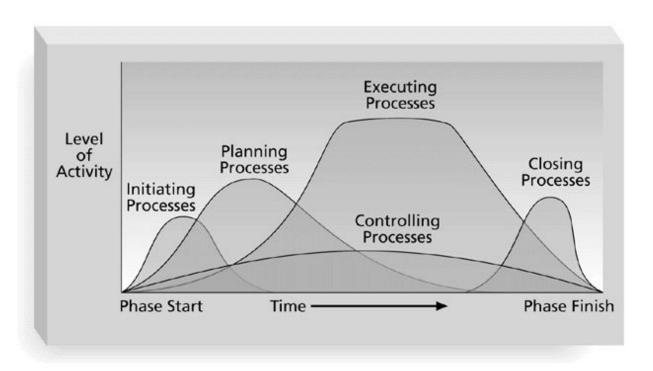


Figure 2-5. Level of Process Group Activity Over Time

Developing an IT Project Management Methodology

- Is Just as projects are unique, so are approaches to project management
- Many organizations develop their own project management methodologies, especially for IT projects
- □A methodology describes how things should be done;
 a standard describes what should be done

Project Pre-Initiation

It is good practice to lay the groundwork for a project before it officially starts

Senior managers often perform several pre-initiation tasks, including the following:

- Determine the scope, time, and cost constraints for the project
- Identify the project sponsor
- Select the project manager
- Develop a business case for a project
- Meet with the project manager to review the process and expectations for managing the project
- Determine if the project should be divided into two or more smaller projects

Project Initiation

- Initiating a project includes recognizing and starting a new project or project phase
- ☐ The main goal is to formally select and start off projects.

The main outputs are: Project Charter and Stakeholder Register

Project Planning

- ☐The main purpose of project planning is to *guide execution*
- ☐ Every phase of project includes planning information
- ☐ Key outputs included in the project include:
 - A team contract
 - A project scope statement
 - A work breakdown structure (WBS)
 - A project schedule, in the form of a Gantt chart with all dependencies and resources entered
 - A list of prioritized risks (part of a risk register)

Project Executing

- Usually takes the most time and resources to perform project execution
- □ Project managers must use their leadership skills to handle the many challenges that occur during project execution
- ☐ Many project sponsors and customers focus on deliverables related to providing the products, services, or results desired from the project
- ☐A milestone report can help focus on completing major milestones

Project Monitoring and Controlling

- Involves measuring progress toward project objectives, monitoring deviation from the plan, and taking correction actions
- ☐Affects all other process groups and occurs during all phases of the project life cycle
- Outputs include performance reports, change requests, and updates to various plans

Project Closing

- Involves gaining stakeholder and customer acceptance of the final products and services
- ☐ Even if projects are not completed, they should be closed out to learn from the past
- Outputs include project archives and lessons learned, part of organizational process assets
- ☐ Most projects also include a final report and presentation to the sponsor/senior management

Conclusion

We have discussed different software project management processes in this class.

There are total 47 software project management processes which are further categorized in 5 process groups.

Reading Assignment

Chapter 3: The Role of the Project Manager by PMBOK-Guide-6th-Edition-PMI

(Book and Lecture Slides are already uploaded on resource link.)

Resource Link:

Thank You