

Project Management (BPM1313)

Project Management Lifecycle

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Project Management Lifecycle

Aims

- To display the importance of project lifecycle and project phases to the students
- To further extend the social, economical and environmental influences towards a project

Expected Outcomes

 Students are expected to differentiate the relationship between general management skills and project management skills

- Other related Information
 - PMBOK study guide

References

- Project Management Institute (PMI). Project Management Body of Knowledge (PMBOK Guide) 5th Edition.
- Burke, R. 2007. Introduction to Project Management. Burke Publishing.
- Kerzner, H. 2001. Project Management: A System Approach to Planning, Scheduling and Controlling. John Wiley & Sons, Inc.



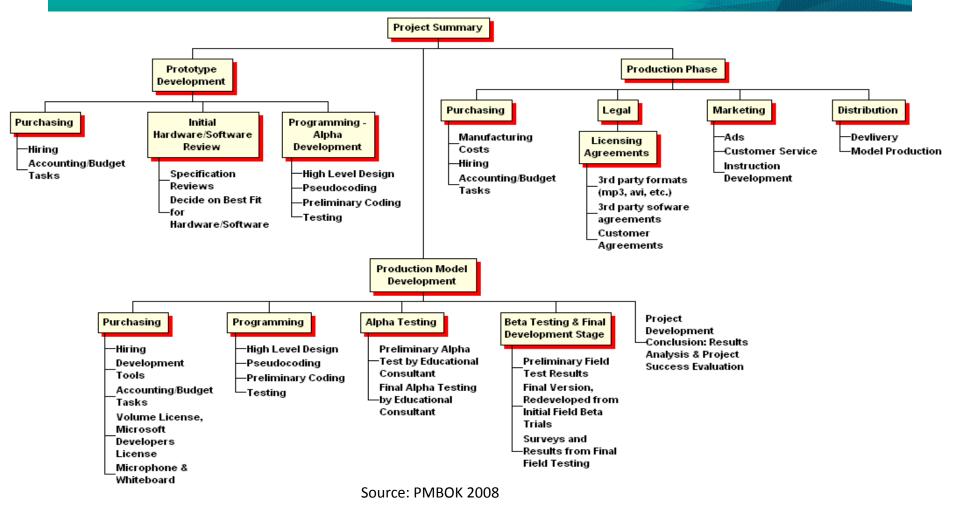
Project Phases & Project Life Cycle

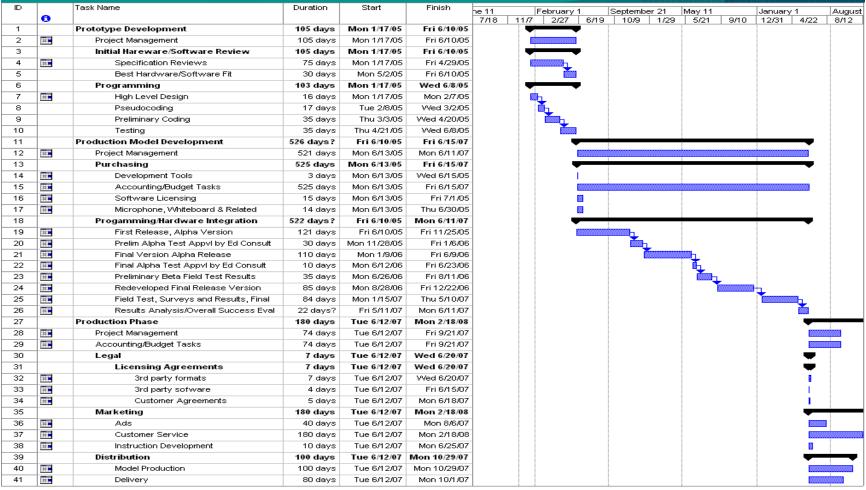
- Projects are unique undertaking involve a degree of uncertainty
- Projects are divided into several project phases
- To improve management control and provide links to the ongoing operations
- Collectively, project phases are known as the Project Life Cycle



- Each project phase are marked by completion of one or more deliverables e.g design review, progress report and product prototype.
- Deliverables are part of a generally sequentially logic designed to ensure proper definition of the product of the project
- Project phase conclusion is marked by a review of both key deliverables and project performance to date;

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 - To determine if the project should continue into its next phase
 - To detect and correct errors cost effectively
- These phase-end reviews are often called phase exits, stage gates or kill points





Source: PMBOK 2008



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Definition of Project Life Cycle (PLC)

- The four phases through which a project moves;
 - Identification of a need, problem or opportunity;
 - Development of a proposed solution;
 - Implementation of the proposed solution; and
 - Termination of the project

Gido & Clements – Successful Project Management



- Every program, project or product has certain phases of development known as Life-Cycle Phases
- ❖No agreement among industries or even companies within the same industry about the Life Cycle phases of a project

- Theoretical definitions of the Life Cycle phases of a system :
 - Conceptual
 - Planning
 - Testing
 - Implementation
 - Closure

- Partial agreement about life cycle phases of a product:
 - Research and Development
 - Market introduction
 - Growth
 - Maturity
 - Deterioration
 - Death

- Life cycle of Engineering:
 - Start up
 - Definition
 - Main
 - Termination

- Life cycle for Manufacturing:
 - Formation
 - Buildup
 - Production
 - Phase-out
 - Final audit

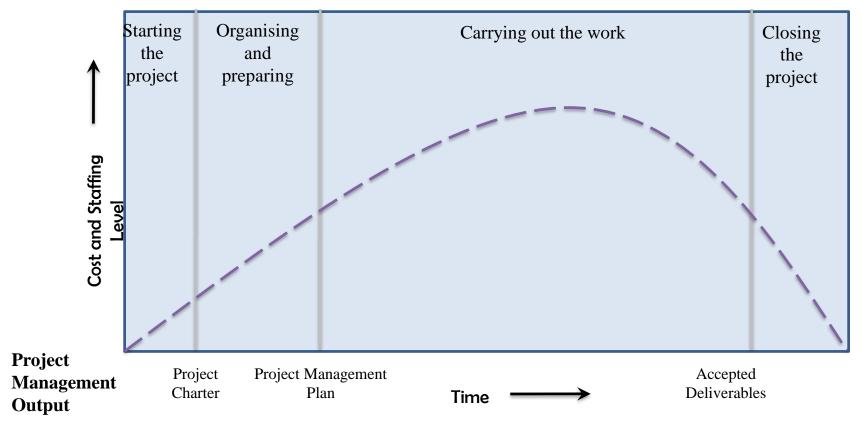
- Life cycle for Computer Programming:
 - Conceptual
 - Planning
 - Definition and design
 - Implementation
 - Conversion



- ❖ Life cycle for Construction:
 - Planning, data gathering and procedures
 - Studies and basic engineering
 - Major review
 - Detail engineering
 - Construction overlap
 - Construction
 - Testing & commissioning

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Characteristics of the Project Life Cycle



Source: PMBOK 2008



Characteristics of the Project Life Cycle

- To define the beginning and the end of a project
- Determine whether the feasibility study is treated as the first project phase or as separate
- Determine which transitional actions at the beginning and the end of the project are included and which are not

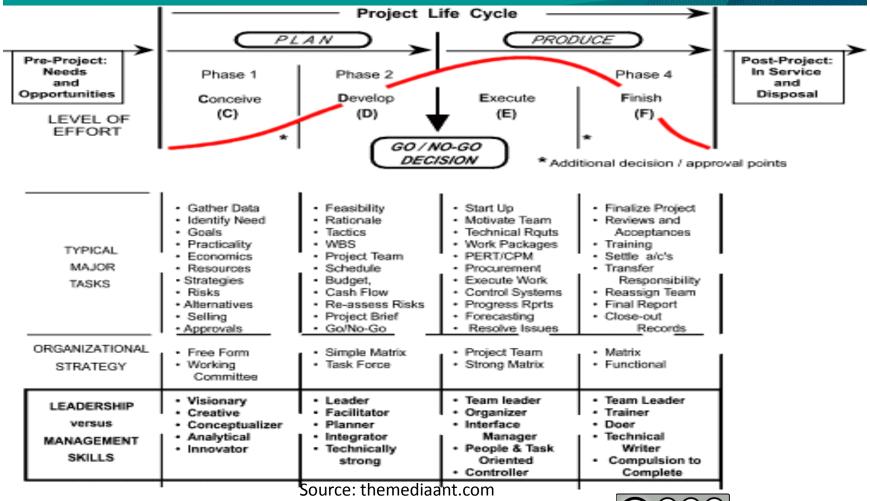
Characteristics of the Project Life Cycle

Common characteristics:

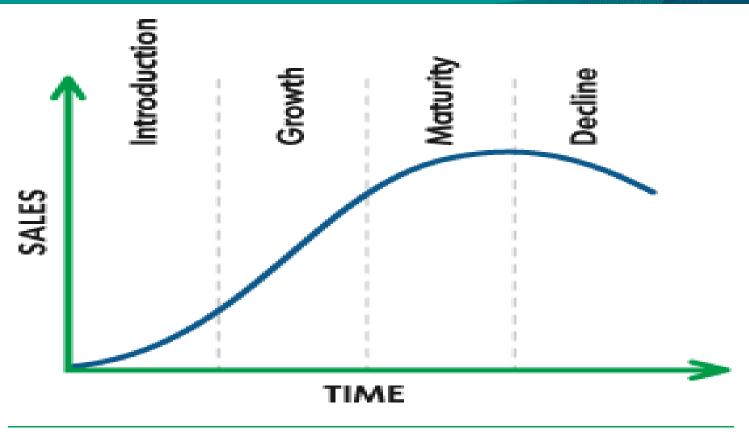
- Cost and staffing levels are low at the start, higher toward the end, and drop rapidly as the projects draws to an end
- The probability of successful completion of a project is lower, and improve risk and uncertainty to be higher, at the start of the project. The probability of successful completion generally gets progressively higher as the project continues
- The ability of the stakeholder to influence the final characteristics of the project's product and the final cost of the project is higher at the start and gets progressively lower as the project continues.

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Difference between Project Life Cycle and Product Life Cycle



Difference between Project Life Cycle and Product Life Cycle



Source: themediaant.com



Conclusion of The Chapter

 Project life cycle illustrates the uniqueness of project work; it recognizes that projects have a limited life span and that there are predictable changes in level of efforts and focus over the life of the project

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