

CHAPTER 1

Project Management Concepts

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Chapter Concepts

- Definition of a project and its attributes
- Key constraints within which a project must be managed
- Life cycle of a project
- Definition of project management
- Elements of the project management process
- Identification and engagement of stakeholders
- Implications of global project management
- Project Management Institute
- Benefits of project management

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Learning Outcomes

- Define what a project is
- List and discuss the attributes of a project
- Explain what is meant by project objective
- Define what is meant by project deliverable
- Provide examples of projects
- Discuss project constraints
- Describe the phases of the project life cycle
- Define and apply project management
- Discuss the steps of the planning process
- Identify the three elements of the executing process
- Create a stakeholder register
- Discuss stakeholder engagement
- Discuss some implications of global project management
- Discuss the Project Management Institute
- List benefits of project management techniques

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Project Management
Knowledge Areas from
PMBOK® Guide



**Project Integration
Management**

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Project Attributes

- Clear objective
- Series of interdependent activities
- Various resources
- Specific time frame
- Unique, one-time endeavor
- Sponsor or customer
- Degree of uncertainty

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Balancing Project Constraints

FIGURE 1.1 Factors Constraining Project Success



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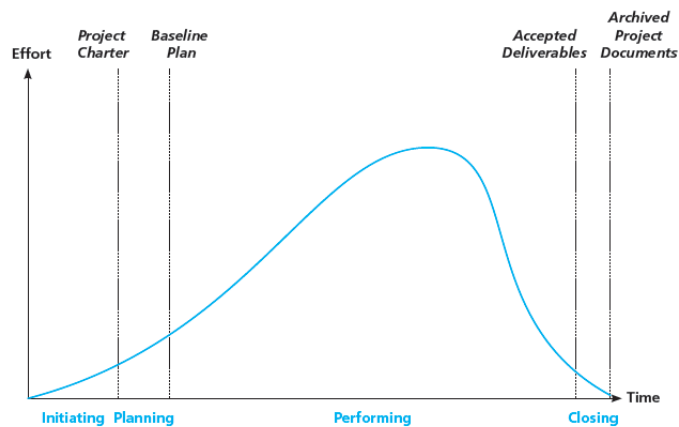
Project Manager Actions

- Prevent, anticipate, overcome
- Have good planning and communication
- Be responsible

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The Project Life Cycle

FIGURE 1.2 Project Life Cycle Effort

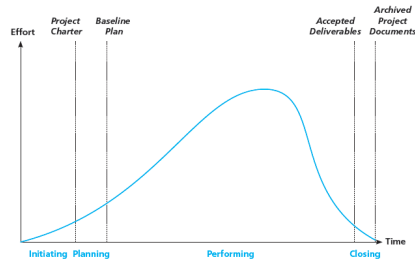


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Initiating Phase

- First phase
- Identify need, problem, or opportunity
- Determine if select project
- Develop project charter
 - Rationale
 - Project objective
 - Expected benefits
 - General requirements and conditions
- Decide if RFP needed

FIGURE 1.2 Project Life Cycle Effort

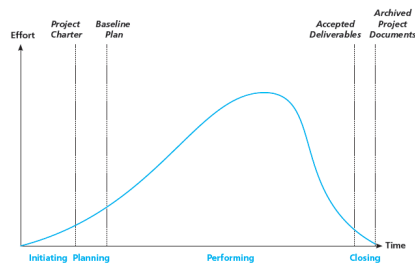


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Planning Phase

- Second Phase
- Show how project scope will be accomplished
- Plan the work and work the plan
- Develop baseline plan
 - *What needs to be done* -- scope, deliverable
 - *How it will get done* -- activities, sequence
 - *Who will do it* -- resources, responsibilities
 - *How long it will take* -- durations, schedule
 - *How much it will cost* -- budget
 - *What the risks are*
- Have actual resources plan the work

FIGURE 1.2 Project Life Cycle Effort

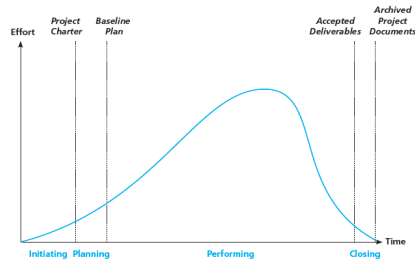


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Performing Phase

- Third phase
- Accomplish project objectives
 - Project manager leads
 - Project team completes the project
- Increase pace as more resources are added
- Monitor and control progress
- Take corrective action as needed
- Manage and control changes with sponsor approval
- Achieve customer satisfaction with acceptance of deliverable

FIGURE 1.2 Project Life Cycle Effort

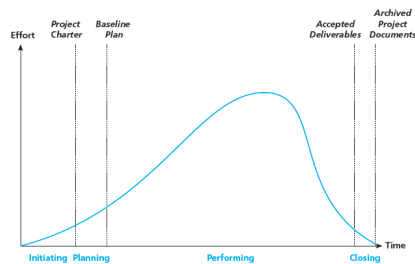


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Closing Phase

- Final phase
- Collect and make final payments
- Recognize and evaluate staff
- Conduct post project evaluation
- Document lessons learned
- Archive project documents
- Record lessons learned

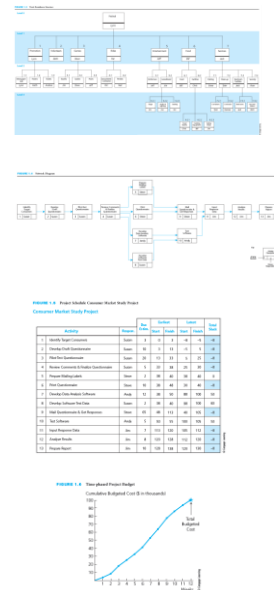
FIGURE 1.2 Project Life Cycle Effort



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Project Planning Process

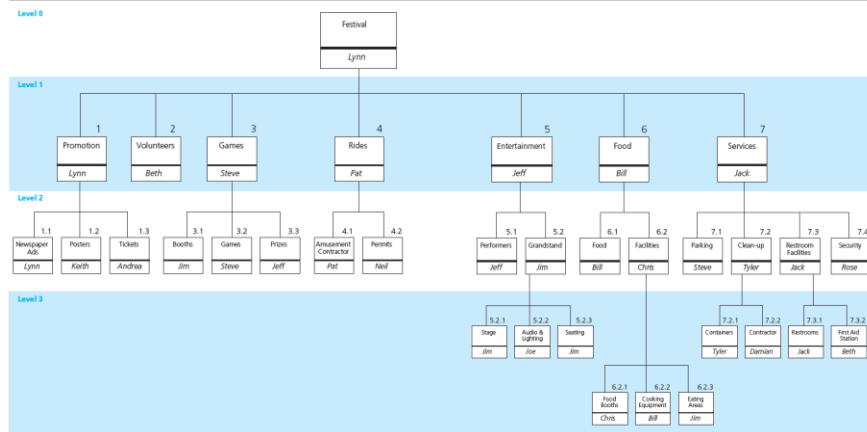
- Establish project objective
- Define scope
- Create WBS
- Assign responsibility
- Define specific activities
- Sequence activities
- Estimate activity resources
- Estimate activity durations
- Develop project schedule
- Estimate activity costs
- Determine budget



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Create WBS and Assign Responsibility

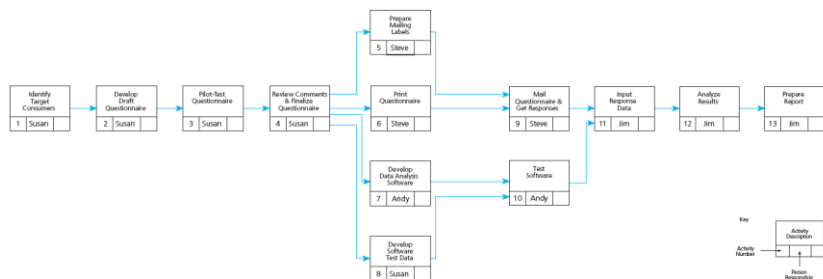
FIGURE 1.3 Work Breakdown Structure



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Sequence Activities

FIGURE 1.4 Network Diagram



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Develop the Project Schedule

FIGURE 1.5 Project Schedule Consumer Market Study Project

Consumer Market Study Project

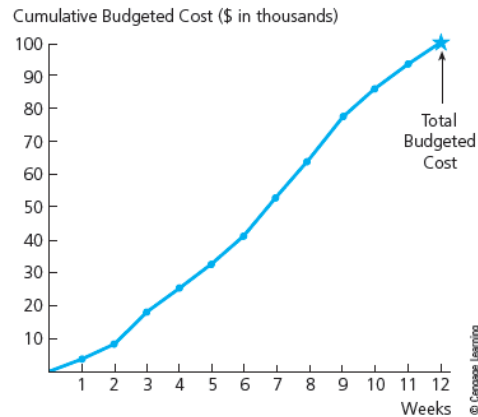
Activity	Respon.	Dur. Estim.	Earliest		Latest		Total Slack
			Start	Finish	Start	Finish	
1 Identify Target Consumers	Susan	3	0	3	-8	-5	-8
2 Develop Draft Questionnaire	Susan	10	3	13	-5	5	-8
3 Pilot-Test Questionnaire	Susan	20	13	33	5	25	-8
4 Review Comments & Finalize Questionnaire	Susan	5	33	38	25	30	-8
5 Prepare Mailing Labels	Steve	2	38	40	38	40	0
6 Print Questionnaire	Steve	10	38	48	30	40	-8
7 Develop Data Analysis Software	Andy	12	38	50	88	100	50
8 Develop Software Test Data	Susan	2	38	40	98	100	60
9 Mail Questionnaire & Get Responses	Steve	65	48	113	40	105	-8
10 Test Software	Andy	5	50	55	100	105	50
11 Input Response Data	Jim	7	113	120	105	112	-8
12 Analyze Results	Jim	8	120	128	112	120	-8
13 Prepare Report	Jim	10	128	138	120	130	-8

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Determine Budget

FIGURE 1.6 Time-phased Project Budget

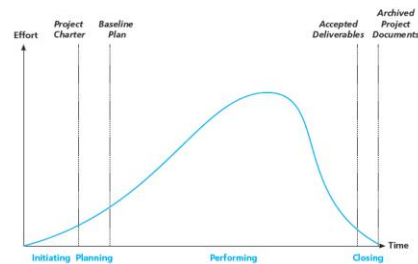


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Execute the Project Plan

- Perform the work
- Monitor and control progress
- Control changes

FIGURE 1.2 Project Life Cycle Effort



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Stakeholder Engagement

Who are Stakeholders?

- Customer/sponsor
- Project team including subcontractors and suppliers
- Organizations or groups
 - Supportive or adversarial
 - Want to be kept informed because of potential impact

What to Create

- Stakeholder register
 - Created as identify stakeholders
 - Include
 - Key contact information
 - Role or specific topics of interest
 - Expectations
 - Any known issues
 - Areas of potential influence
- Issue log

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Global Project Management

Globalization

- Adds a dimension of complexity
- Changes project dynamics
- Requires awareness of factors
 - Cultural differences
 - Currency
 - Codes and regulations
 - Business organization
 - Political relations
 - Workforce availability

Helpful Competencies

- Foreign language skills
- Knowledge of
 - Cultures
 - Geography
 - World history and contemporary events
 - International economics
- Awareness of
 - Customs and etiquette
 - Geopolitical environment
- Technology adoption and translation software

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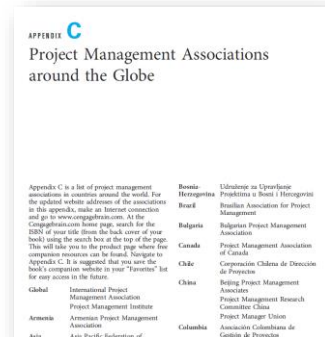
Project Management Associations

Project Management Institute

- Worldwide not-for-profit association of practitioners
 - ~500,000 members in nearly 200 countries
 - ~270 chapters in >80 countries
- >30 online communities for collaboration
- PMBOK® Guide*
- PMI Code of Ethics and Professional Conduct*
- Certifications
- www.pmi.org

Global Associations

- Links available at www.cengagebrain.com



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Critical Success Factors

- Planning and communication** are critical to successful project management. They prevent problems from occurring or minimize their impact on the achievement of the project objective when they do occur.
- Taking the time to develop a **well thought-out plan** before the start of the project is critical to the successful accomplishment of any project.
- A project must have a **clear objective** of what is to be accomplished and defined in terms of end product or deliverable, schedule, and budget; and is agreed upon by the customer.
- Involve the sponsor** or customer as a partner in the successful outcome of the project through active participation during the project.
- Achieving customer satisfaction requires **ongoing communication** with the customer to keep the customer informed and to determine whether expectations have changed.
- The key to effective project control is **measuring actual progress** and comparing it to planned progress on a timely and regular basis and taking any needed corrective action immediately.
- After the conclusion of a project, the **project performance** should be evaluated to learn what could be improved if a similar project were to be undertaken in the future. **Feedback** should be obtained from the sponsor or customer and the project team.
- Learning and understanding the culture and customs** of other project participants will demonstrate respect, help build trust, and aid in developing an effective project team; and it is critical for successful global project management.

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Summary

- A project is an endeavor to accomplish a specific objective through a unique set of interrelated activities and the effective utilization of resources.
- The successful accomplishment of the project objective could be constrained by many factors, including scope, quality, schedule, budget, resources, risks, customer satisfaction, and stakeholder support.
- The project life cycle has four phases: initiating, planning, performing, and closing the project.
- Project management is planning, organizing, coordinating, leading, and controlling resources to accomplish the project objective. The project management process involves two major functions: first establishing a plan and then executing that plan to accomplish the project objective.
- Globalization changes the dynamics of a project and adds a layer of complexity that can adversely affect the project outcome if the project participants are not aware of what they can encounter regarding cultural differences and multinational economic transactions.
- The Project Management Institute is a premier worldwide not-for-profit association for practitioners in the project management profession.
- The ultimate benefit of implementing project management techniques is having a satisfied customer—whether you are the customer of your own project or a business (contractor) being paid by a customer to perform a project.

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