Introduction to Project Management

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1

"Project management is the planning, organizing, directing, and controlling of company resources for a relatively short-term objective that has been established to complete specific goals and objectives."

Eric Verzuh, The Fast Forward MBA in Project Management



Five Essential Factors	
Agreement among the project team, customer	
and management on the goals of the project	
A plan that shows an overall path and clear responsibilities that will be used to measure progress during the project	
Constant effective communication among everyone involved in the project	
A controlled scope	
5. Management support	
Five Process Groups	
1. Initiating- Casting the vision	
2. Planning	
3. Executing	
4. Monitoring and Controlling	
5. Closing	
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Project Lifecycle	
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 Define the Project 	
 Planning Process 	
 Controlling the Project 	
Close out	
Define Plan Carpelline to a constituent of Class Out	
Define Plan Controlling the Project Close Out	
← Project Initiation ← →	

Define the Project	
 Identify stakeholders – (They are the heart of a successful project) Project Manager (define, plan, control and lead the project) Project team (have skills & efforts to perform tasks) Sponsor (Authority, guidance, and project priority) Customer (Product requirements, funding) Functional Management (policy and resources) Make the Rules 	
Planning the Project	
Product Description What measurable effect or product will we have at	
the end of the project? • Purpose Statement	
Why are we doing this? Assumptions	
 What are you assuming to be true? Scope Statement In the active voice, state the scope of the project 	
List major deliverables List major deliverables	
- List major don orables	
Planning (continued)	
 Quantifiable objectives Measurable criteria for success 	
Budget and time constraints Include answers to: How fixed is the budget? How was the deadline determined? How far over budget, or how late can we be and still be successful? Do we know enough to produce	
reliable estimates? • Stakeholders	
Who are the customers? Who does this project impact? Who are the decision makers? Who has the resources to get the project? Organizational Chain of Command	
 Who approves the project assessment? What is the selection criteria of the different project approaches? What process will lead to an approved project assessment statement? 	

Dianning Dick Management	
Planning – Risk Management	
Identify the risksDevelop a response strategy	
Control the riskOngoing risk assessment	
Planning – Work Breakdown Structure	
Provides a detailed illustration of the project	
 Monitors progress Creates accurate cost and schedule	
estimates • Builds a project team	
Critical path	
Planning – Scheduling and Estimating	
Create the project definition	
Develop a risk management strategy and quality plan	
Build a work breakdown structure (phases of project and tasks of the phases) Critical path	
 Critical path Identify task relationships	

Planning – Scheduling and Estimating (continued)	
 Estimate tasks Calculate the initial schedule Assign and level resources Critical path 	
Chronology of Poor Planning	
Project initiationWild enthusiasmDisillusionmentChaos	
Search for the guiltyPunishment of the innocentPromotion of the non-participants	
Definition of the requirements Jane Betterton, Instructor, UNM Continuing Education Project Mgmt	
Controlling the Project	
Controlling the Project	
Make task assignments clearPlan individual status meetings	
Put the meetings on the calendarHave a kick-off meeting	
Have regular project status meetings	

Project Close Out	
 Post project review agenda and guidelines Post project review report (including financial status) Client satisfaction assessment Project history file guidelines Project summary report 	
16	
Project Management at Work	
Project Management	
(Deliverables by Project Phase)	
1. Define the Projecta. Charterb. Statement of workc. Responsibility matrix	
 d. Communication plan e. Order of magnitude estimating guidelines 	

	Customer Database Course	
	Scenario	
	You work at the Facilities Management Department of a large University. Your department is responsible for	
	the operation and maintenance of all University facilities including building, grounds, landscaping, vehicles, utilities, and custodial services. The	
	department employs about 750 employees who are responsible for more than twenty million square feet of interior space and 800 acres of land.	
	Currently, detailed customer information is known only by the area maintenance shops and other division	
	managers and supervisors.	
10		
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	Customer Database Course Scenario	
	(continued)	
	Different divisions of the Facilities Management Department are interested in this new customer information. The Planning,	
	Design and Construction Division needs to forecast future construction and expansion needs; Maintenance and Planning	
	and Environmental Services divisions need to forecast staffing	
	needs; Finance & Services would like a more accurate forecast on future revenues and expenditures, and the director and associate directors want to monitor customer service responses more closely in order to improve customer satisfaction ratings.	
	The director would like a detailed project plan on how you will	
	collect, collate, and analyze this new information. The information is needed within three months. You have one month	
	to define the plan and have the plan approved.	
20		
	Customer Database Course Scenario	
	(continued)	
	For each customer, the director would like the following information:	
	Department name	
	2. Department size	
	Contact name Ruildings and spaces to be maintained and maintenance zone to which	
	 Buildings and spaces to be maintained and maintenance zone to which assigned 	
	5. Type of facility 6. Ruilding Condition (standardized)	
	Building Condition (standardized) Special Conditions/potential issues	
	Customer satisfaction rating	
	9. Projected volume of business for next year	

Assumptions	
(What are you assuming to be true?)	
Staff available to do the work and follow-	
 Data must be available in electronic 	
format for analysis	
 Managers and Service Call Coordinators have the information and will cooperate. 	
Due duet Description	
Product Description (What measurable effect or product will we have at the end of the project?)	
A database designed and implemented	
on departmental network, documenting customer information through Microsoft	
Access.	
Durnaga Statement	
Purpose Statement (Why are we doing this?)	
The director has identified the need for	
enhancing customer service at campus level and within the department for	
improved response and customer service.	
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Scope Statement	
(In the active voice, state the scope of the project, including what is not part of this project when appropriate)	
Collect existing customer information from	
coordinators and managers and design/implement a central departmental database to house customer information based on	
input from service call coordinators, finance, and work control (work order records)	
 This project provides basic reports for customer information. Customized reports for individual divisions will be evaluated in the next phase. 	
Organizational Chain of	
Command	
(Who approves the project assessment, what is the selection criteria of the different project approaches, what process will lead to an approved project assessment statement?)	
 Director approves project assessment before project begins 	
Changes are requested through the project manager and	
project manager and,If changes do not impact schedule, project	
manager approves, • If changes impact the schedule, the director's	
approval is required	
Stakeholders	
(Who are the customers, who does the project impact, who are the decision makers, who has the resources to get the project?)	
• External	
Customers, suppliers, University administration	
InternalDirector	
Associate Directors Maintenance and Environmental Services	
managers/supervisors	
 Service Call Coordinators/customer support staff 	

Deliverables - Responsibility Matrix

	Director	Project Manager (Administrative Coordinator)	IT Manager/Staff	A/D Finance and Admin	A/D Maintenance & Planning	Office Manager	Service Call Coordinators	Area Managers
Project plan defined	I, R,S	Rp	P, I	P, I	P, I	I, P	1	1
Data requirements defined	I, R, S	Rp, R	P, I, R	Р	Р	Р		
Collection procedures defined								
Data collected								
Database prototype built								
Database prototype tested								
Prototype approved								
Database training requirements defined								
Database entry completed								
Database On-line								

P=Participant, Rp=Responsible, R=Review required, I= Input required, S=Sign-off

January 20

28

Communications Plan

	Director	Project Manager (Administrative Coordinator)	IT Manager	A/D Finance and Admin	A/D Maintenance & Planning	Office Manager	Service Call Coordinators	Area Managers
Project Plan Cost Report	W	D	D	D	D	D		
Project Plan detailed cost and schedule report	W	W	W	W	w	W		
Overview project status report	W	W	W	W	W	W	W	W
Resource requirements	Α	Α	Α	Α	Α	Α	Α	Α
Deliverables status report	M	W	М	M	M	М	M	M
Implementation schedule report	W	W	W	W	W	W	W	W

D = Daily, W = Weekly, M = Monthly, A = As Requested

29

Quantifiable Objectives

(Measurable criteria for success)

- Project will finish within 15% of projected finish time
- Less than 40 hours of unscheduled overtime will be used to complete the project
- Two iterations of development/test phase will be conducted
- One iteration of implementation/production required
- · User signs off that project is completed

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				gement roject Phase)			
a.	Risk	he Projec	ŧ				
c. d.	Woı	t log t manageme k breakdow delines for t	n stı	ructure			
f. g.	Net Gar	work diagra att chart t-estimating	m				
Wo	rk E	Breakdo	wr	Structure	anc	ı	
		ables					
Plai	nning roject P ign	verables. Use w lan approved					
DDev	ata coll	ection mechanis	m and	ompleted and approved distribution defined and a	pprove	d	
Tes	t	ming & fields app	oroved	I for test			
• P	onth		roduct	ion, no major problems re	ported	for one	
	ser fee	d-back for next p r-sign-off comple		documented			
Risk P		ln ln	0 P	re re de de	re	St	
<u>Ş</u>	Impact (high or	Impact description	Probability of occurrence	Suggested response and response description (avoid, mitigate or accept	Who approves response	Response approval status	
oordinators	low H	Delay in	Н	Accept Accept	Dire	Pending	
id managers on't give formation		schedule Quality of database will decrease		Mitigate – conduct training prior to work.	Director	ding	
omputer	н	Delay in	Н	Contingency – Add time to schedule to compensate for additional work	0	ס	
omputer sources available		schedule		Avoid-design work top priority allowing other deadlines to delay Transfer-subcontract	Director	Pending	
	1	I	1	computer work (adds cost)	1	I	

Proj	oot Managam	ont		
	ect Managem erables by Project			
3. Proj	ect Control			
b. C	tatus reports for different a ost and schedule tracking	charts		
d. C	eeting agendas, including ost-tracking guidelines sues log	open task reports		
f. C	hange request form hange log			
4				
Quality F	Plan			
4				
WBS/Deliverable Project Plan	Steps to Make Sure Deliverable is Correct -Use qualified personnel	Criteria of Acceptance Project plan based on		
Approved	-Meet with stakeholders to discuss requirements -Base project on approved project assessment	department template -Project plan reviewed and approved by those identified in responsibility matrix.		
Database reports design completed and approved	-Use qualified personnel -Meet with stakeholder (focus on users) to review detailed requirements -All key stakeholders identified in responsibility matrix required to review and	Internal review peer review of design completed and approved. Sign-off of key stakeholders		
Data collection and distribution defined and	sign-off -Use qualified personnel -Meet with stakeholder (focus on users) to review detailed requirements	Internal peer review of design completed and approved Sign-off of key stakeholders		
approved	 -All key stakeholders identified in responsibility matrix required to review and sign-off 			
5				
0	N			
	Plan (continued)		7	
WBS/Deliverable Code approved	Steps to Make Sure Deliverable is Correct -Use qualified personnel	Criteria of Acceptance Internal peer review of code completed	-	
for test	-Follow internal coding procedures	and approvedSign-off of appropriate management (as identified in responsibility matrix)		
User sign-off completed	-Use qualified personnel -All key stakeholders identified in responsibility matrix required do required testing to sign-off	Internal review peer review of test results completed and approved Sign-off of key stakeholders		
Code moved to production	·Use qualified personnel	Internal review peer review of move to production completed and approved Sign-off of appropriate management	1	
User Feedback	-Use qualified personnel	(as identified in responsibility matrix) Internal review peer review of feedback.	-	
documented	procedures	Sign-off of appropriate management (as identified in responsibility matrix)		
Final User sign- off completed	-Use qualified personnel -Follow internal sign-off procedures	Sign-off of appropriate management (as identified in responsibility matrix) Project plan with lessons learned archived with user sign-off		

Budget and Time Constraints Let a be budget?" How was the deadline arrived at? How far over budget or how late can we be and still be successful? Do we know enough to produce reliable estimates?) One month to define and approve plan Three months to complete Two IT staff working on project half time during the project	
Project Management (Deliverables by Project Phase) 4. Close Out a. Post project review agenda and guidelines b. Post project review report c. Client satisfaction assessment d. Project history file guidelines e. Project summary report	
Close-out Reporting Notify participants of transition tasks with a project turnover memo Document lessons learned and product improvement suggestions Detail unresolved issues to be handled in the next phase Survey participants of what they would do differently next time	

If you have clear goals, strong communication, realistic schedules supported by detailed plans, you will	
have a successful project. You will	
achieve them by systematically applying the techniques of project	
management.	
This concludes The	
American Institute of	
Architects Continuing	
Education Systems Course	
AIA Continuing Education Provider	