Introduction to Project Management

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"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	
4. A controlled scope5. Management support	
Five Process Groups	
Initiating- Casting the vision	
2. Planning3. Executing	
4. Monitoring and Controlling5. Closing	
3. Closing	
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Project Lifecycle	
Define the Project	
Planning ProcessControlling the Project	
• Close out	
Define Plan Controlling the Project Close Out	

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 	
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?	

Planning – Risk Management	
Identify the risksDevelop a response strategy	
Control the riskOngoing risk assessment	
Planning – Work Breakdown Structure	
Provides a detailed illustration of the projectMonitors 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 planBuild a work breakdown structure (phases of project and tasks of the phases)	
 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 initiation Wild enthusiasm Disillusionment Chaos Search for the guilty Punishment of the innocent Promotion of the non-participants Definition of the requirements Jane Betterton, Instructor, UNM Continuing Education Project Mgmt	
Controlling the Project Make task assignments clear Plan individual status meetings Put the meetings on the calendar Have 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 guidelinesProject summary report	
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Project Management at Work	
Project Management at Work	
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Project Management	
(Deliverables by Project Phase)	
Define the Project a. Charter	
b. Statement of work	
c. Responsibility matrixd. Communication plan	
e. Order of magnitude estimating guidelines	

	Customer Detabase Course	
	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.	
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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.	
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	Customer Database Course Scenario	
	(continued)	
	For each customer, the director would like the following	
	information:	
	Department name	
	2. Department size	
	3. Contact name	
	 Buildings and spaces to be maintained and maintenance zone to which assigned 	
	5. Type of facility	
	6. Building Condition (standardized)	
	7. Special Conditions/potential issues	
	Customer satisfaction rating Projected volume of hydrogen for port year.	
	Projected volume of business for next year	

Assumptions (What are you assuming to be true?) • Staff available to do the work and follow-up • Data must be available in electronic format for analysis • Managers and Service Call Coordinators	
have the information and will cooperate.	
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.	
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.	

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. 	
uivisions 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, If changes do not impact schedule, project	
manager approves, If changes in pacient 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 	
• Internal • Director	
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

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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	М	М	M	М	М
Implementation schedule report	W	W	W	W	W	W	W	W

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

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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

Pro	oje	ct Ma	an	ag	gement			
(Del	iver	ables	by	Pr	oject Phase)			
2. PI	an t	he Proj	ect					
b.	Risk							
d.	Wor	manage k breakdo delines fo	own	str	ucture			
f.	Netv	work diag			SIZE			
-		t-estimati	ng v	wor	k sheet			
		Breako ables		wr	Structure a	anc	I	
(List ma	jor deli ining	verables. Use	ow e	rds ei	nding in "ed")			
• Desi	i gn atabase		desiç		mpleted and approved			
Dev	elop	ection mecha ning & fields			distribution defined and ap for test	pprove	d	
		-off complete	ed					
• Pı	ogramr onth	ming moved t	o pro	duct	ion, no major problems rep	oorted	for one	
		I-back for nex r-sign-off con			locumented			
Risk P	lan							
Risk	Impact		Impact	Probat	Sug rest rest des miti	Who rest	Respo status	
	act (high or low		act description	pability of urrence	Suggested response and response condescription (avoid, mitigate or accept	Who approves response	oonseapproval us	
pordinators	rlow	Delay in	_	н	Accept			
nd managers on't give formation		schedule Quality of database will decrease			Mitigate – conduct training prior to work.	Director	Pending	
		D			Contingency – Add time to schedule to compensate for additional work	1	_	
omputer sources lavailable	Н	Delay in schedule		Н	Accept Avoid-design work top priority allowing other deadlines to delay	Director	Pending	
					Transfer-subcontract computer work (adds cost) Contingency-Add time to			

(Deliver) 3. Proj a. Sc b. Cc c. M d. Cc e. Is f. C	ect Managem erables by Project ect Control tatus reports for different a ost and schedule tracking eeting agendas, including ost-tracking guidelines sues log hange request form hange log	Phase) audiences charts			
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<u></u>					
Quality F	Plan				
WBS/Deliverable	Steps to Make Sure Deliverable is Correct	Criteria of Acceptance			
Project Plan Approved	-Use qualified personnel -Meet with stakeholders to discuss requirements -Base project on approved project assessment	Project plan based on 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	·Sign-off of key stakeholders			
Data collection and distribution defined and approved	sign-off -Use qualified personnel -Meet with stakeholder (focus on users) to review detailed requirements -All key stakeholders identified in responsibility matrix required to review and	·Sign-off of key stakeholders			
	sign-off				_
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Quality F	Plan (continued)				
WBS/Deliverable	Steps to Make Sure Deliverable is Correct	Criteria of Acceptance	7		
Code approved for test	-Use qualified personnel -Follow internal coding procedures	Internal peer review of code completed and approved. Sign-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 -Follow production code procedure	Internal review peer review of move to production completed and approved Sign-off of appropriate management (as identified in responsibility matrix)			
User Feedback documented	-Use qualified personnel -Follow internal user documentation procedures	Internal review peer review of feedback. Sign-off of appropriate management			
Final User sign- off completed	-Use qualified personnel -Follow internal sign-off procedures	(as identified in responsibility matrix) -Sign-off of appropriate management (as identified in responsibility matrix) -Project plan with lessons learned archived with user sign-off			

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Budget and Time Constraints Constraints 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	
Education systems course	
AIA Continuing Education Provider	