

Software Project Management (SENG211)

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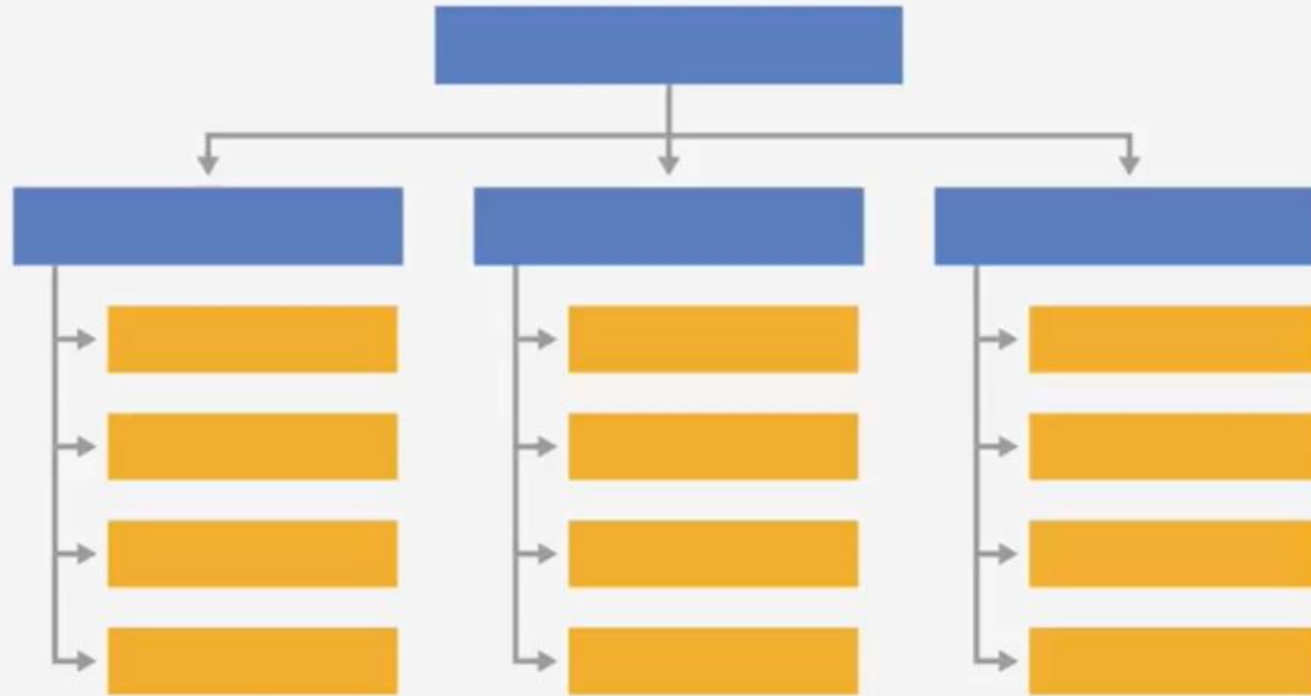


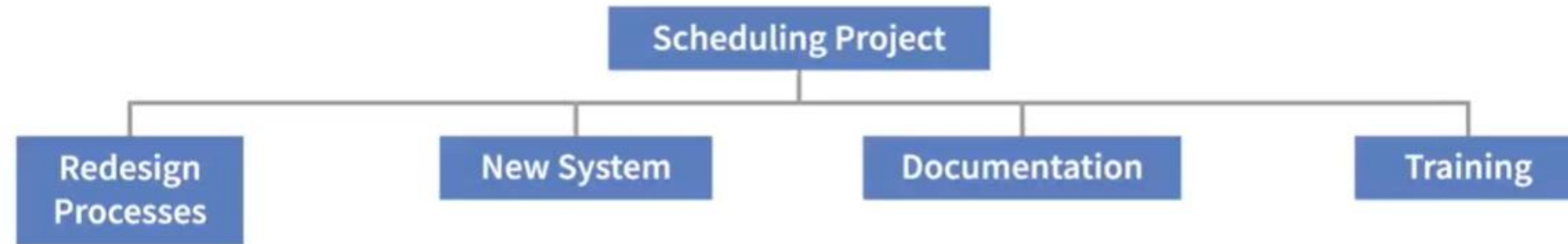
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- **Phase I — Initiation**
- **Phase II — Planning**
- **Phase III — Execution**
- **Phase IV — Monitoring**
- **Phase V — Closing**

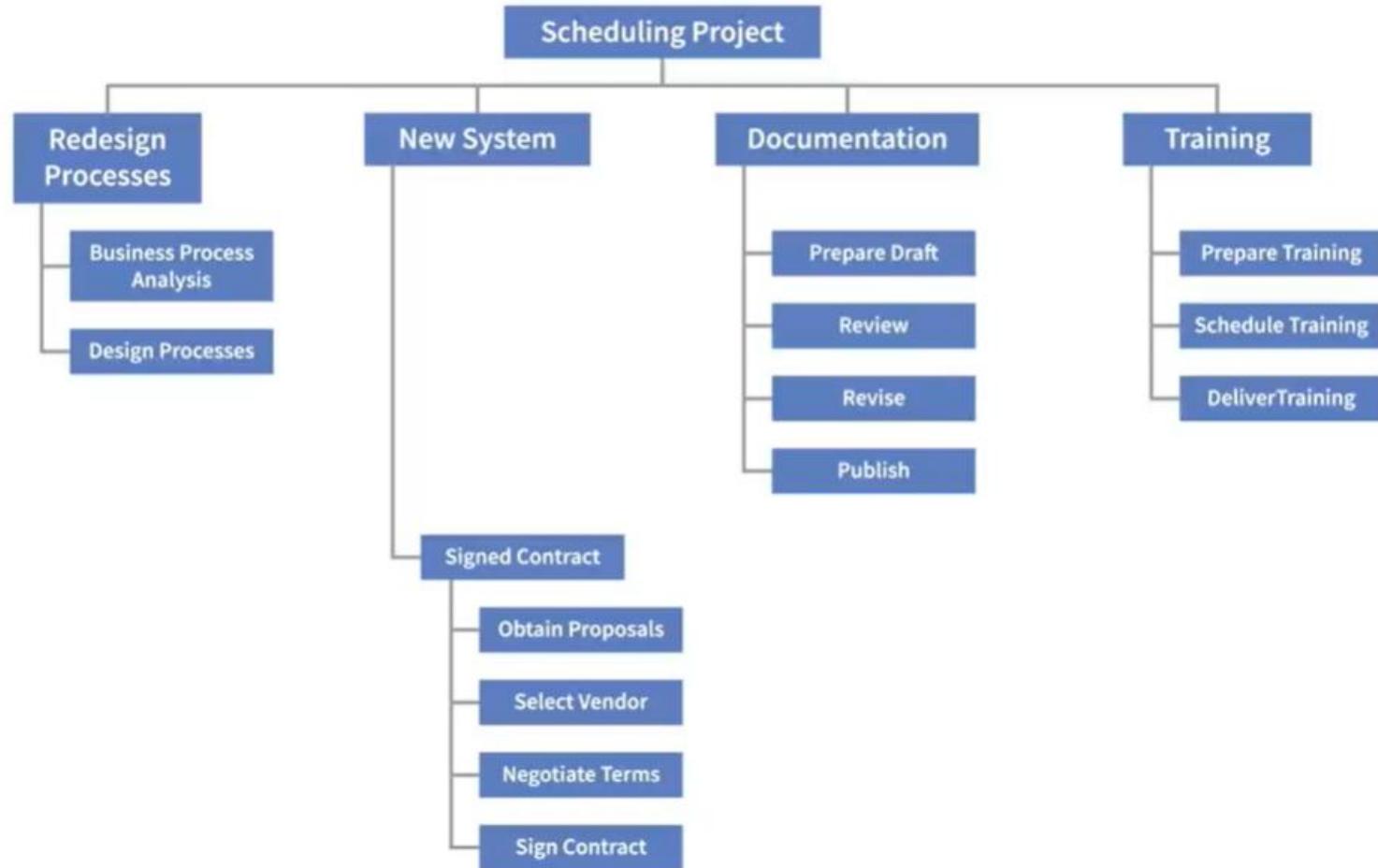


Building a WBS



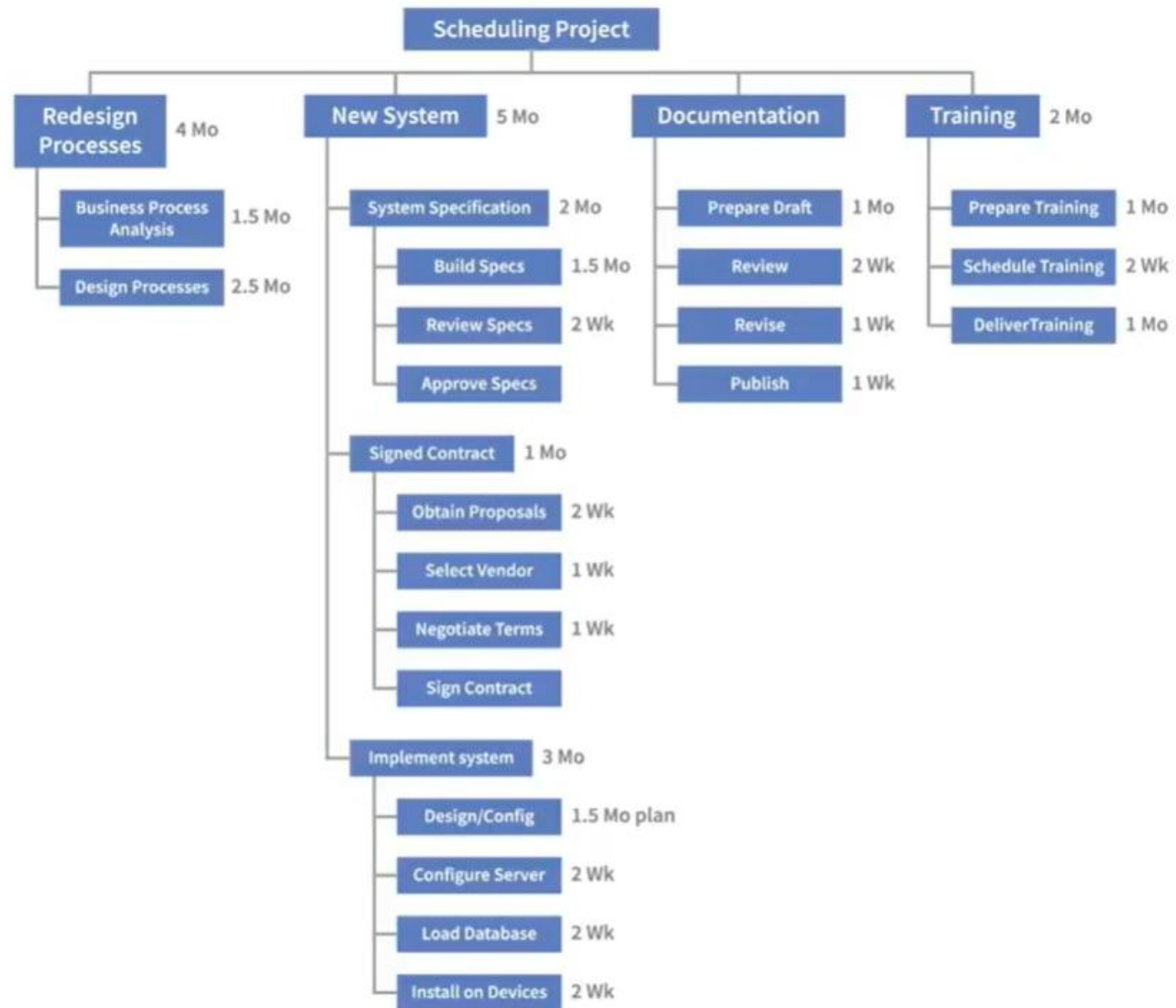




Work Breakdown Structure (WBS)



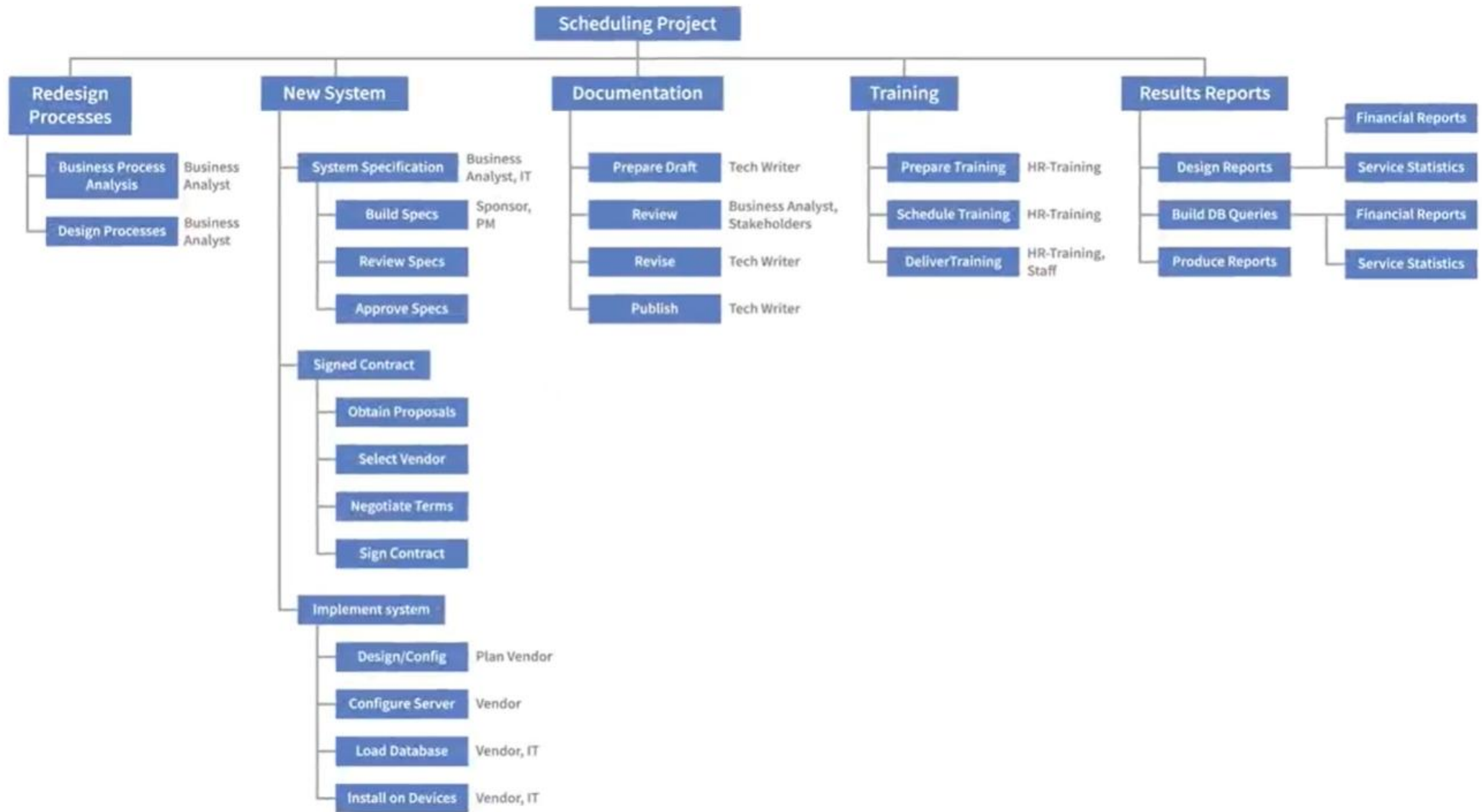


Easier to estimate time and cost





Easier to assign work



Work Packages

- Lowest level in WBS

Determining Breakdowns

- Time and cost are easy to estimate
- Status is easy to measure
- Task durations are shorter than reporting periods
- Details are manageable

Scheduling Project

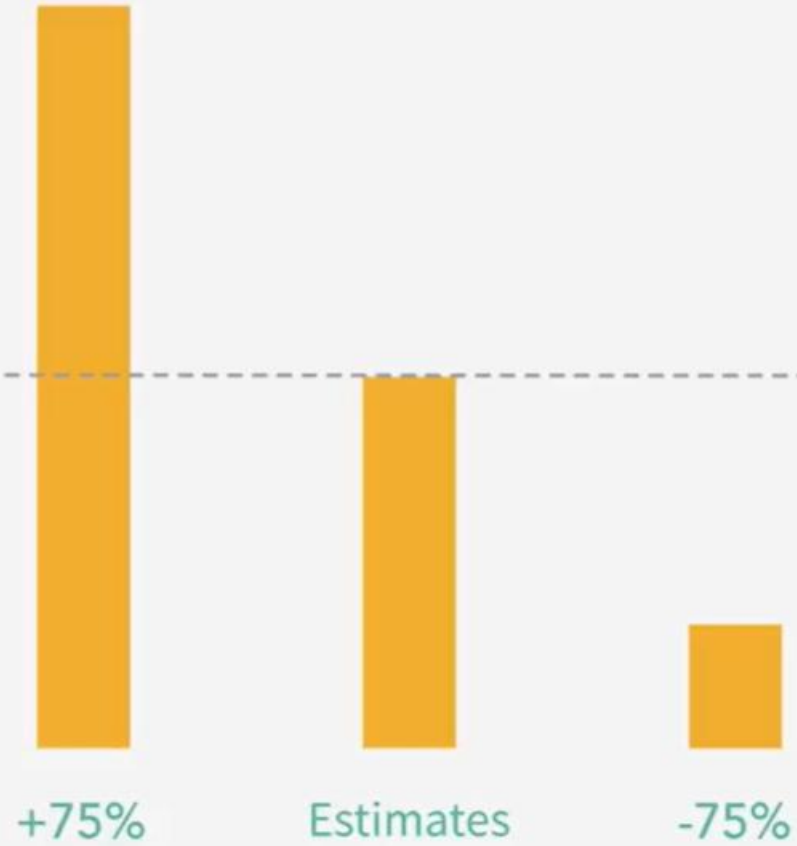
WBS:	4.2
Work Package:	Schedule training
Package Owner:	Bekir Berk
Owner Organization:	Sport, Culture and Health Department
Participants:	Bekir Berk, Trainer
Description: Create a schedule of training sessions so that each session has a maximum of 8 attendees. Schedule sessions before the start of shifts so staff can attend training before starting their shifts. Send invites to all staff who will use the scheduling system and provide three session options. Develop the training schedule to assign most people to their first choice.	
Completion State: All scheduling staff are assigned to training sessions and have accepted the final invitation.	
Reference Docs:	

estimate time and cost



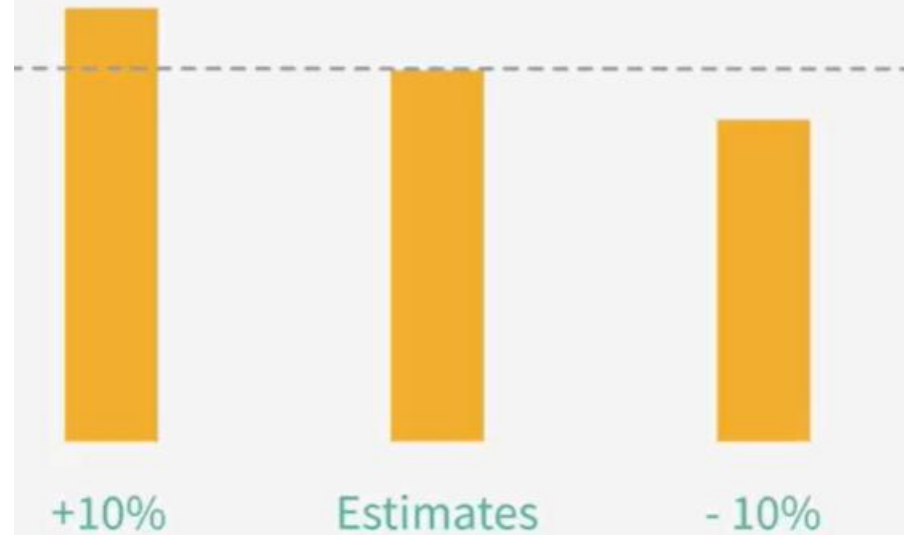
Team members

Estimates



estimate time and cost

Estimates



estimate time and cost

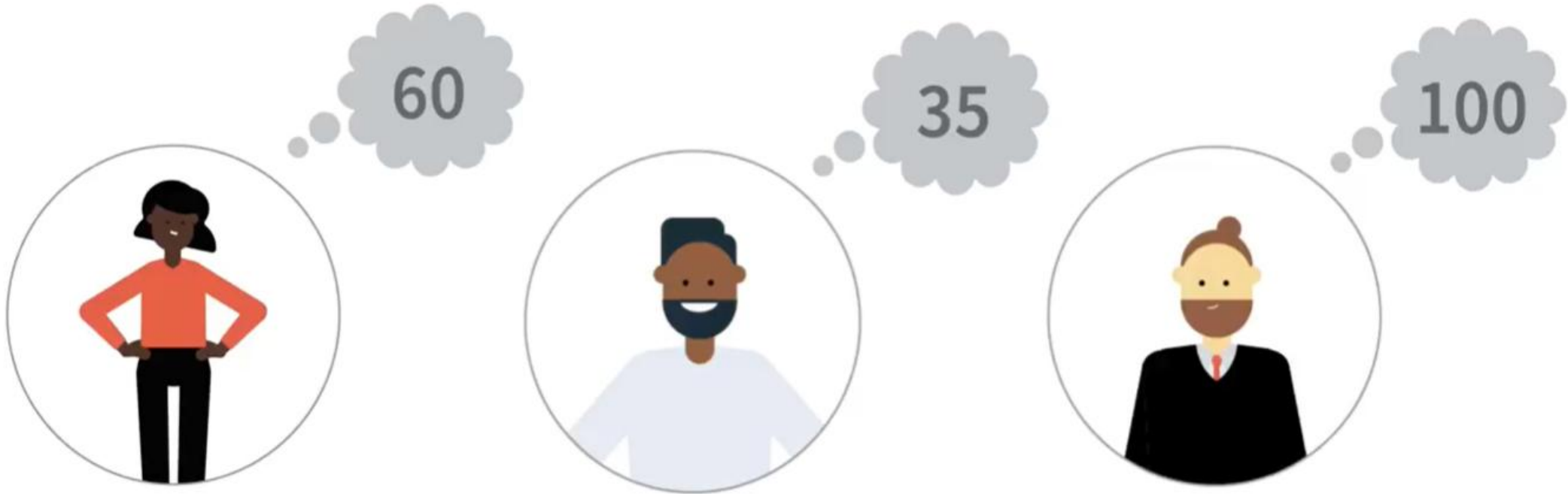
Parametric Model

You calculate work and cost based on a measured unit

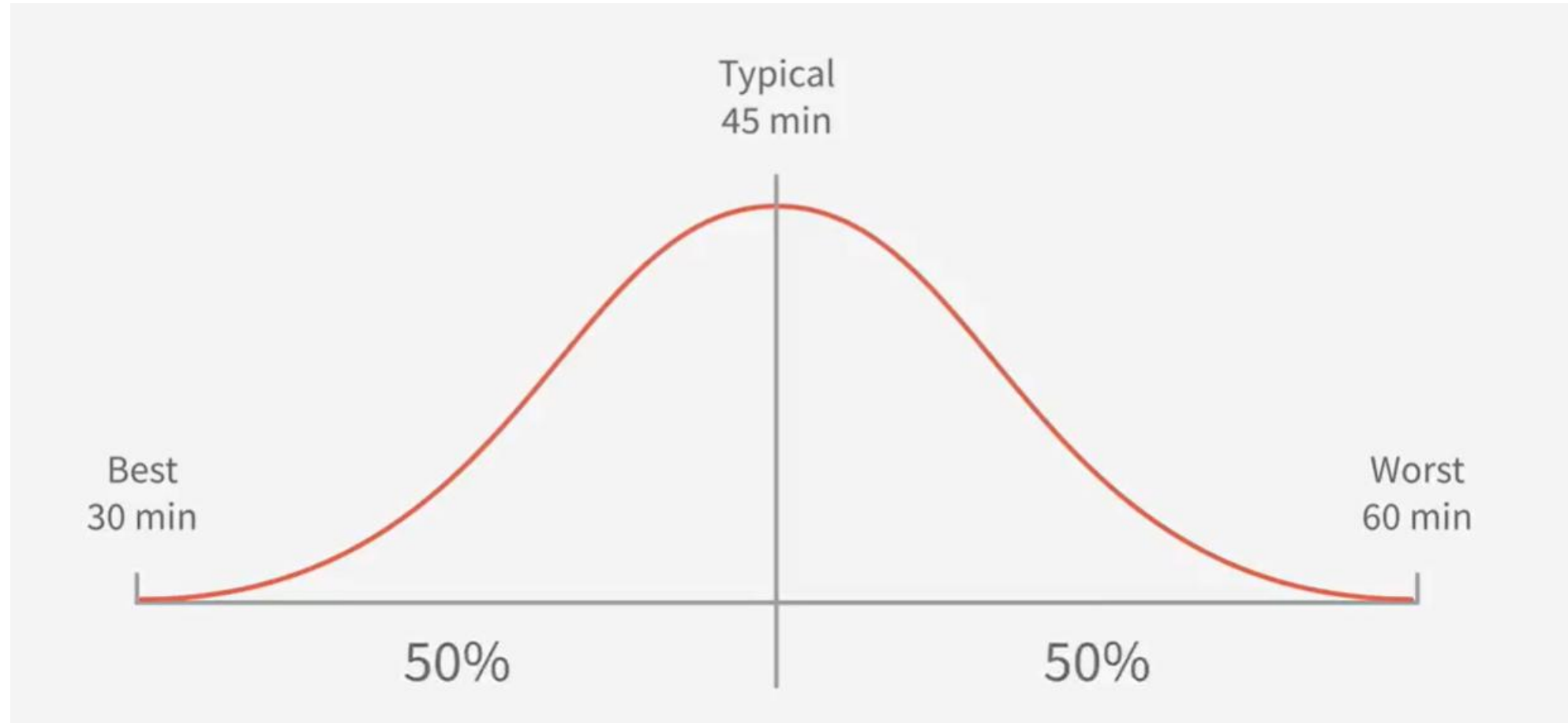


estimate time and cost

Delphi Technique



estimate time and cost



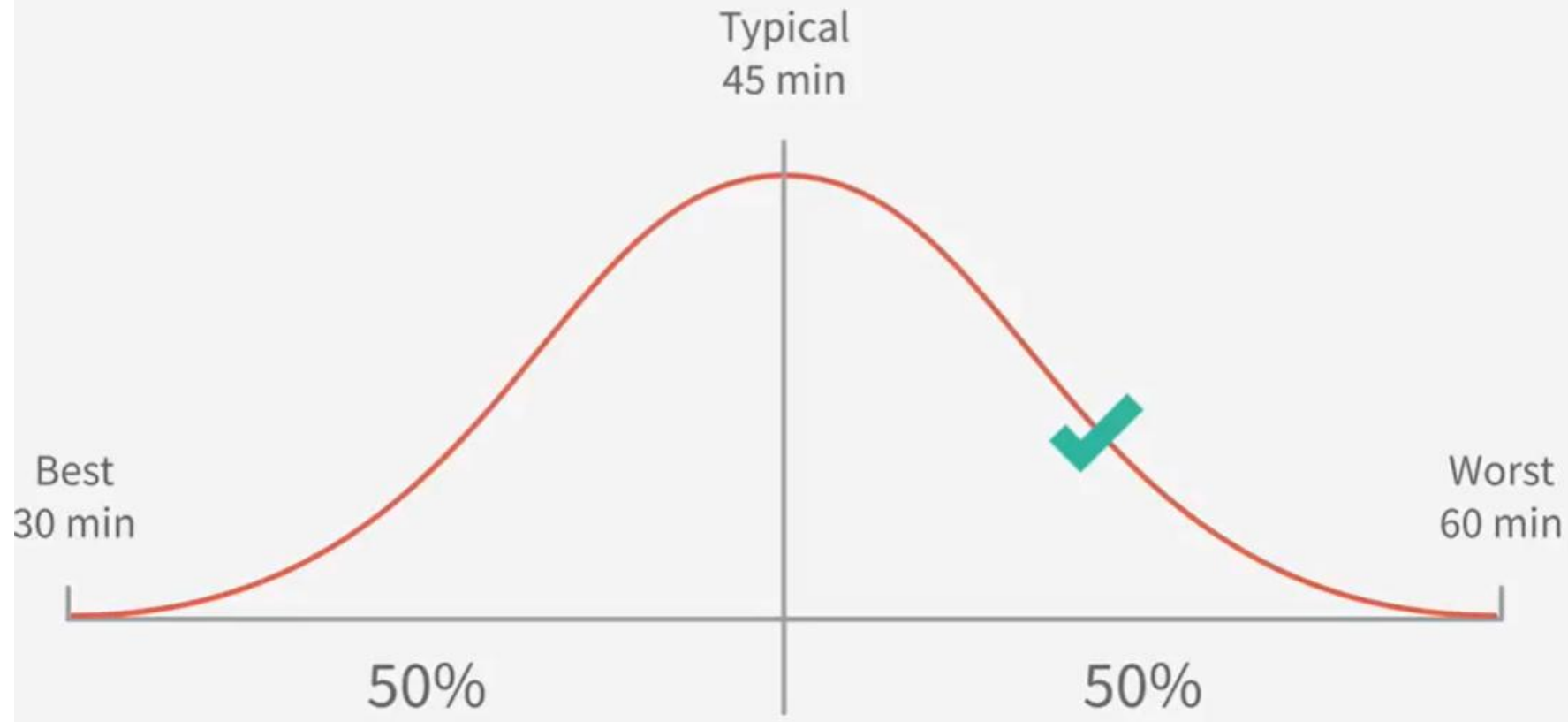
estimate time and cost

Adjust Your Estimate

- A higher value increases the chance of success
- A lower value decreases the chance of success

estimate time and cost

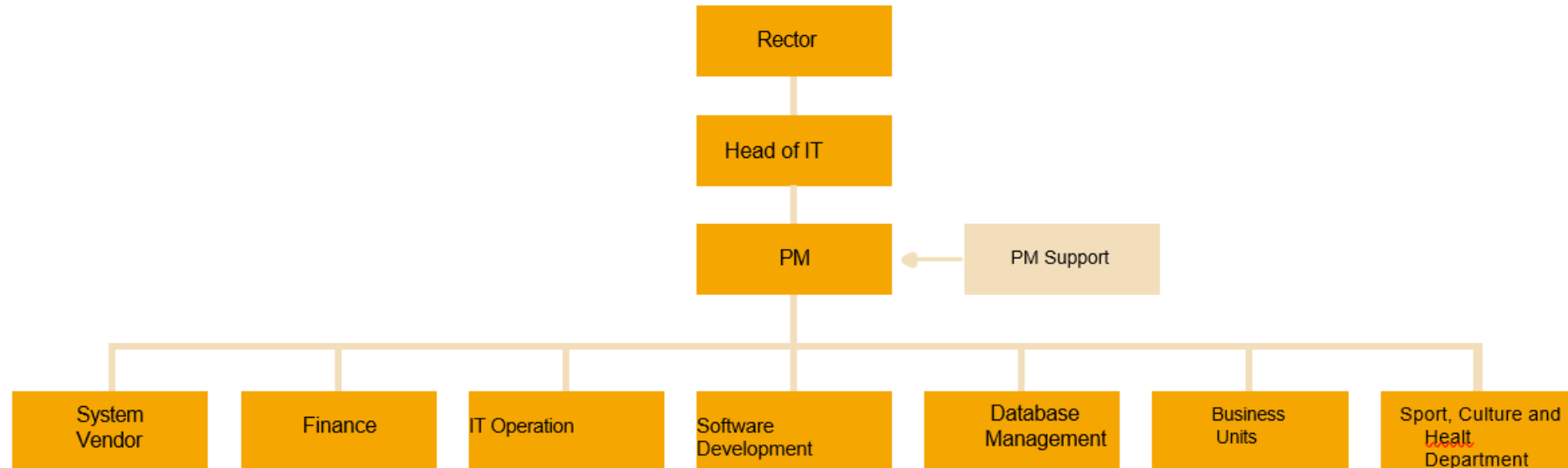
86% Probability



Resource Management Plan

- Roles
- Responsibilities
- Reporting structure
- Skills
- Staffing

Project Organization Chart



RACI

Responsible for doing

Accountable for decisions and delegations

Consult before a decision

Needs to be Informed



- **Responsible** – The doers. They get the work done.



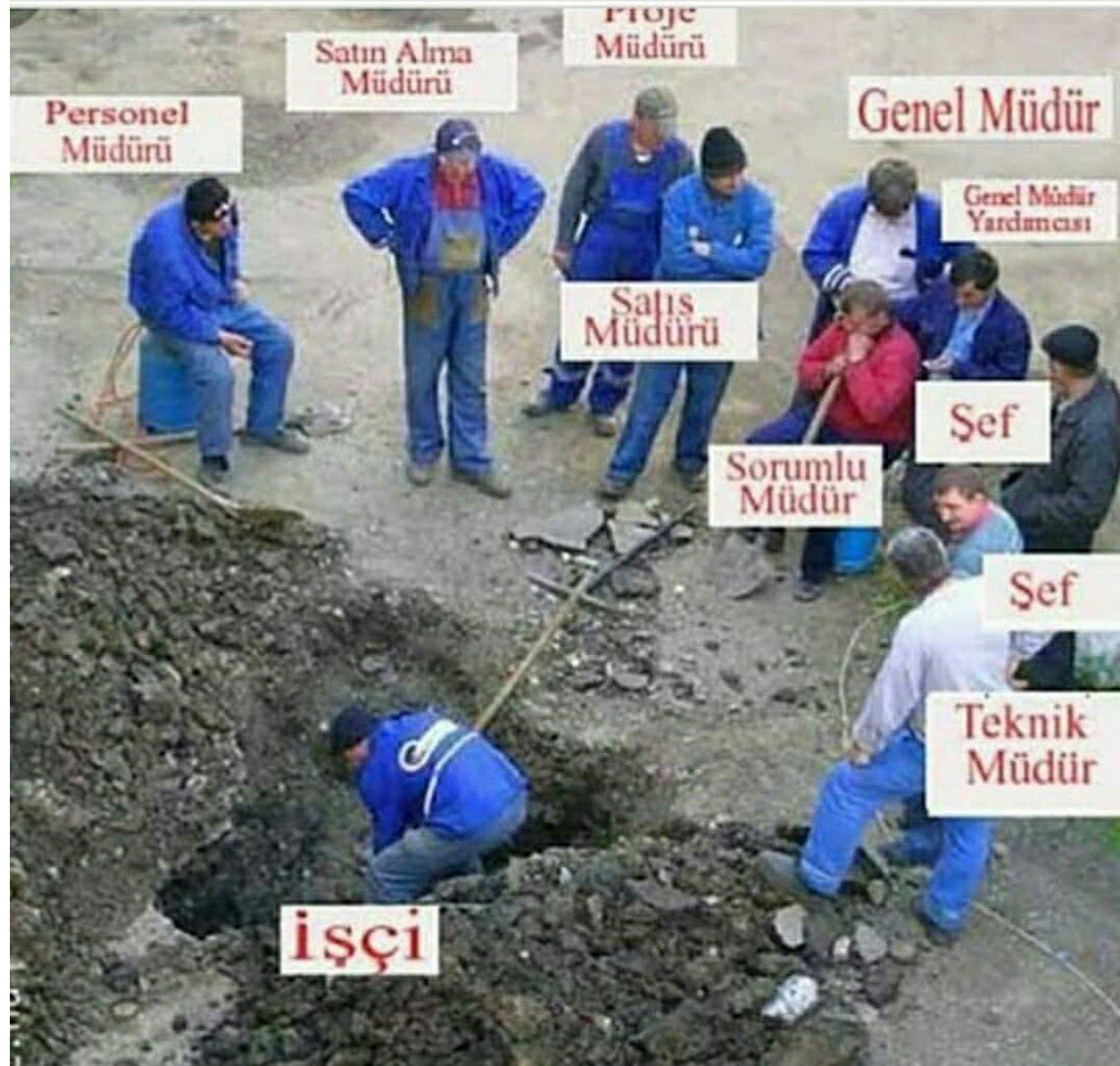
- **Accountable** – The buck stops here. This single person is ultimately answerable for the task.



- **Consulted** – People consulted typically are subject matter experts, whose advice is sought.



- **Informed** – Those that need to know. These people are kept aware of what is going on.





RACI Matrix

	Sport, Culture and Health Department	Project Management Team	IT Department	University General Secretary and Rector
Project plan	A	R	C	I
Project budget	R	A	I	I
Process analysis	A	R	C	I
Scheduling system implementation	C	A,R	R	I

Skills Matrix

Tasks	Business Analyst	System Engineer	Software Engineer	Document Author	Trainer
business process analysis	x				
Identify the system specification, Install and Implement software programming, customization and configuration		x			
documentation			x		
training				x	
					x
People needed	2	1	2	2	1
Monthly rate	\$1.000	\$800	\$700	\$100	\$200
Estimated months	1,5	2	3	2	2,5
Estimated cost	\$3.000	\$1.600	\$4.200	\$400	\$500

Total Labor Costs

\$9.700

Staffing Plan

- Identify sources for resources
- When are they needed
- Training requirements
- Resource processes

Project Schedule

1. Put tasks in sequential order.
2. Estimate the time each task will take.
3. Assign tasks to project team members.
4. Calculate task duration.
5. Account for deadlines and other constraints.