

**“No battle plan survives
contact with the enemy”**

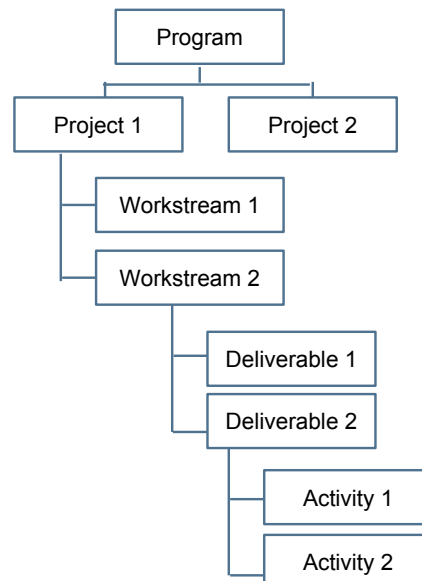
Helmuth von Moltke

Schedule Planning

Deliverables VS Activities

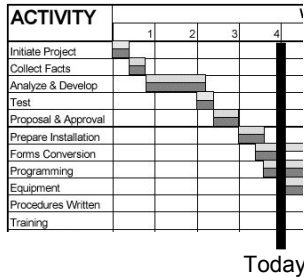
Work Breakdown Structure

- 1. Project
 - 1.1 Workstream 1
 - 1.1.1 Develop Charter
 - 1.1.2 Conduct Kick-off meeting
 - 1.1.3 Prepare Requirements
 - 1.1 Workstream 2
 - 1.1.1 Develop Charter
 - 1.1.2 Conduct Kick-off meeting
 - 1.1.3 Prepare Requirements

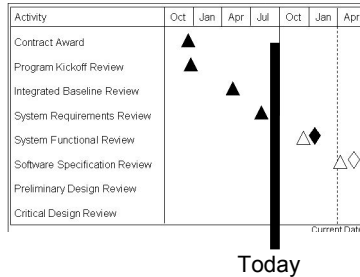


Schedule Types

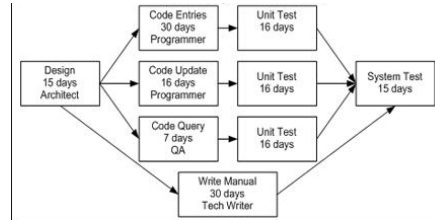
GANTT Chart



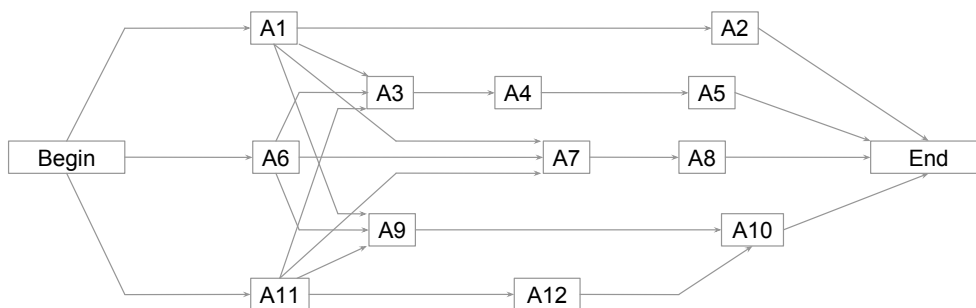
Milestone Chart



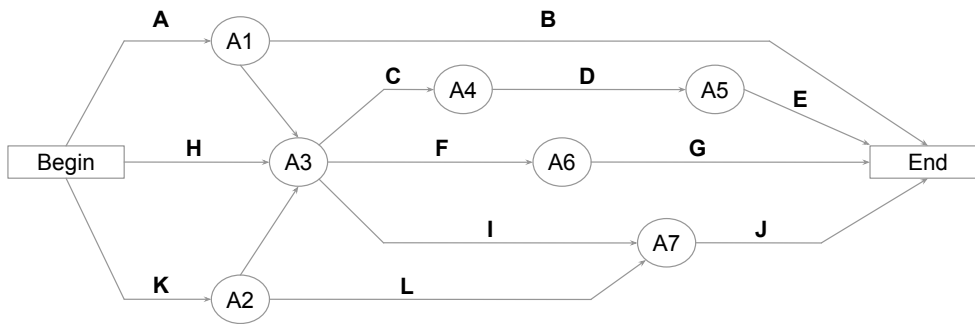
Network Chart



Precedence diagramming method (PDM) aka Activity-on-node (AON)



Arrow diagramming method (ADM) aka Activity on Arrow (AoA)



Activity Duration Estimating Techniques

- Analogous
 - Top Down
 - Uses durations from previous similar projects
- Parametric
 - Bottom Up
 - Uses a (simple) mathematical formula to determine estimates

Work Effort vs Durations

Activity	Work Effort	Constraints/Assumptions	Duration
1.1 Develop plan	.5 hr	Time will be available	1 hr
1.2 Negotiate budget	5 hrs	Request is approved	5 hrs
2.1 Order software	1hr	Shipping time (7 days)	7 days
2.2 Complete software training	12hrs	Time is available	12 hrs
3.1 Signup for training	1hr	Class openings	1 hr
3.2 Attend course	53hrs	Schedule permits	3 months
3.3 Past test	4hrs	Scheduling study time	4 hrs
4.1 Sign up for test	1hr	App'l process is 14 days	14 days