FIT2002 Tutorial 5 solution

Activity 1

1. **What is meant by time management?**
   Time management: is working out the activities, the duration and the dependencies between the activities (basically sequencing and scheduling)

2. **Explain the term schedule baseline.**
   Baseline is taking a screenshot the original plan of the project so we can track our progress when there is any changes happen during the project

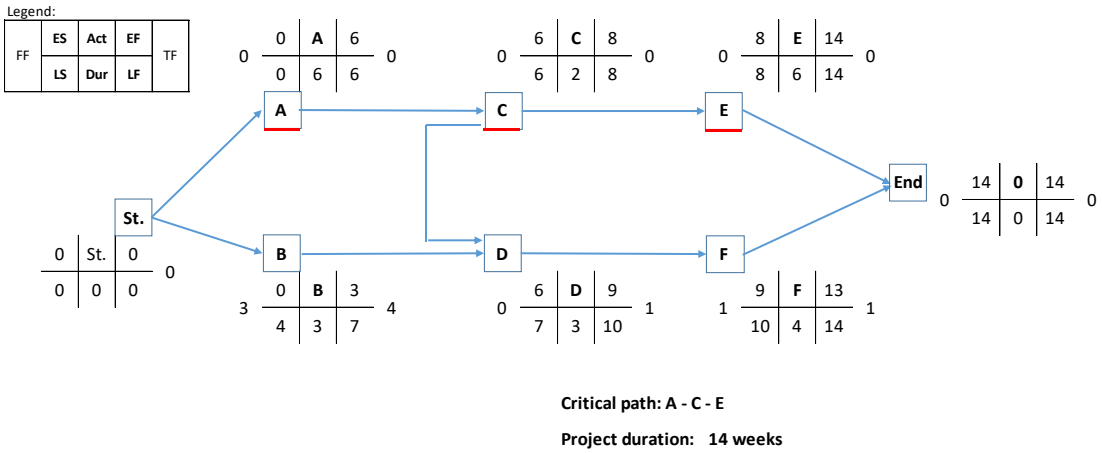
3. **What is the importance of correct scheduling?**
   We can continuously track the project progress to ensure it does not go over the original schedule. A correct scheduling allows us to track it more precisely.

4. **Explain the difference between the work breakdown structure and the work package?**
   Work package is the lowest level in WBS which is basically the deliverables of the project. Work package is a subpart of WBS.
   Note: Each work package may have multiple people working on it. The level of effort shows each person's man-hours.

5. **Discuss why you would use the Activity-on-Arrow and when you would use the Activity-on-Node techniques.**
   Activity on arrow: use it for big networks (however, it needs dummy activities for start-to-start and end-to-end dependencies)
   Activity on node: use if for complex networks with uncommon dependencies.

6. **Discuss whether network diagrams should be used in Agile methodology.**
   It should only be used for traditional method. In agile, the requirements are vague at the beginning and grow over time so it's impossible to develop a network at the beginning. We use burndown charts during iterations (sprints) in agile.

Activity 2



Activity 3

PERT weighted average = optimistic time + 4* most likely time + pessimistic time

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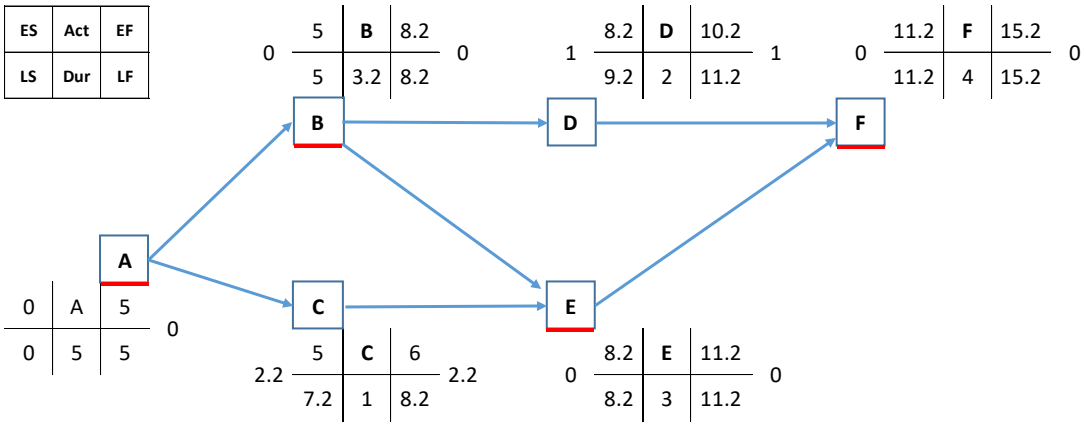
Task	Predecessors	Optimistic	Most likely	Pessimistic	PERT
A	None	2	5	8	5
B	A	2	2	9	3.2
C	A	.25	.5	3.75	1
D	B	1	1	7	2
E	B & C	1	2	9	3
F	D & E	1	3	11	4



- Critical path: A, B, E, F
- Scheduled time for project: 5 + 3.2 + 3 + 4 = 15.2
- Advantages – attempts to address risk associated with schedule development and time estimation
- Disadvantages – need to collect data for optimistic, most likely and pessimistic times. Takes more time to think about the estimates.