

INTEGRATED PROJECT

Integrated Project 363

Developing the Project Schedule

Develop an in-depth schedule for your initial project based on the Work Breakdown Structure you have completed. You will need to complete several activities at this stage: (1) create an activity precedence diagram showing the network logic for each project activity you have identified; (2) prepare an activity duration table showing optimistic, likely, and pessimistic activity times for each task; and (3) create both the network diagram and Gantt charts for your project, indicating the critical path and all critical activities, total project duration, and all activities with float.

As you prepare the activity precedence diagram, consider:

1. Have we identified opportunities to create parallel paths or are we placing too many activities directly in a serial path?
2. Is our logic correct for identifying preceding and subsequent activities?
3. Are there some clear milestones we can identify along the precedence diagram?

As you prepare the activity duration table, you might wish to set it up along the following lines:

Activity	Duration			Est. Duration
	Optimistic	Likely	Pessimistic	
A	6	9	18	10
B	3	8	13	8

Finally, in creating the network diagram and Gantt charts, use MS Project or a comparable scheduling software package (see examples in Figures 10.26, 10.27, and 10.28a, b, and c).

Sample Project Schedule, ABCups, Inc.

Tasks	Duration (in days)
Plant manager feasibility request	1
Get technical approval	5
Determine if additional labor needed	4
Research equipment	26
Determine best suppliers	21
Meet with vendors	21
Obtain quotations from vendors	14
Pick equipment vendor	7
Negotiate price and terms	3
Obtain financing for equipment	3
Calculate ROI	3
Obtain required signatures	10
Capital approved	1
Issue purchase order	40
Equipment being built	21
Marketing new process	15
Create mailer	9
Design new brochure	9
Update Web site	15
Lay out plant for new equipment	

Note: This is a partial activity network and schedule.