

Learning Objectives

1. Understand the importance of project schedules and good project time management

2. Discuss the

Learning Objectives
Use a Gantt chart for planning and tracking schedule information, find the critical path for a project

Microsoft Project Scheduling projects on time as one of their biggest challenges ■ Time has the

Individual Work Styles May Cause Big Differences in Course Schedule Conflicts attitudes toward structure

MBTI

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Media Snapshot
Media Snapshot the 2002 Salt Lake City Winter Olympic Games (see Chapter 4's Media Snapshot),

Project Management Processes determining the policies, procedures, and documentation that w

Figure 6-1. Project Time Management Summary

Planning Schedules Management, analytical techniques, and meetings to develop the schedule

Definitive activity is an element of work normally found on the work breakdown structure (WBS)

Activity List and Attribution of activities to be included on a project schedule that includes the a

Milestone is a significant event that normally has no duration ■ It often takes several activities a

Sequence diagram activities and determining dependencies ■ A dependency or relationship is the

When types of dependencies are inherent in the nature of the work being performed on a project, sometimes they are called **hard dependencies**.

Network Diagrams are the preferred technique for showing activity sequencing ■ A network diagram

Figure 6-2. Network Diagram for Project X

Also called activity method (ADM) network diagrams ■ Activities are represented by arrows ■ Nodes

25. Find all of the activity A's that start at node 1. Draw their finish nodes and draw arrows between

Figure 6-3. Task Dependency Types

Figure 6-4. Sample PDM Network Diagram

Before starting any activity, you must have a good idea of the quantity and type of resources

2018/10/10
Priority Duration Estimating amount of time worked on an activity plus elapsed time ■ Effort is the

Instead of presenting activity estimates as a discrete number, such as four weeks, it's often helpful to

Developing the Schedule Develops the timeline management processes to determine the start and end date of the



Gantt Charts provide a standard format for displaying project schedule information by listing project

Figure 6-5. Gantt Chart for Project X

Figure 6-6. Gantt Chart for Software Launch Project

■ **Using Milestones to Constructing milestones, especially for large projects** ■ **Milestones emphasize**

SMART Criteria should be ☒ Specific ☒ Measurable ☒ Assignable ☒ Realistic ☒ Time-framed

Self-Organization is inherent in the development of complex systems. Luc Richard, the founder of **w**

Figure 6-7. Sample Tracking Gantt Chart

CPM is a planning technique used to predict total project duration ■ A critical path for

■ Develop the Critical Path
■ Add the duration estimates for all activities on each path to

Figure 6-8. Determining the Critical Path for Project X

More on the Critical Path
At project start Apple's computer put a stuffed gorilla on the top of the cubicle of the person currently in charge of the project.

Being Critical Path Analysis to Make Schedule Activity can be delayed without delaying the early

Figure 6-9. Calculating Early and Late Start and Finish Dates

Table 6-1. Free and Total Float or Slack for Project X

Use the Critical Path to Shortening Project Schedules ■ Shortening durations of critical activities/tasks

#8 importance of updating project schedule information to meet time goals for a project ■ The critica

Critical Chain Scheduling ■ a method of scheduling that considers limited resources when creating

Figures 6-10.a and b. Multitasking Example

2016
B2
Offering a Critical Claim to complete a task ■ Murphy's Law states that if something can go wrong

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100



Figure 6-11. Example of Critical Chain Scheduling

56. **PERT Analysis and Review Technique (PERT)** Estimate project duration when there is a high degree of uncertainty.

PERT Weighted Avg = $\frac{\text{optimistic time} + 4 \times \text{most likely time} + \text{pessimistic time}}{6}$

Be flexible with the schedule ■ Allow for contingencies ■ Don't plan for everyone to work at the same time

Controlling the Schedule
6.1 Monitoring the Status of the schedule, influence factors that cause schedule changes, determining the causes

Realistic Checks on Scheduling or estimated completion date in the project charter ■ Prepare a mo

Working with people helps projects succeed more than good PERT charts ■ Project managers should

Qualitas Poland earned Poland's Project Excellence Award in 2007 for implementing a SAP sy

Using software to facilitate communication helps people exchange schedule-related information. ■ D

What Went Right? Examples of examples of how customers benefit from using Project 2010. One such

Many people use project management software because they don't understand important con

Object Summary Management is often cited as the main source of conflict on projects, and most IT pr