

BUS 362

Assignment 02 - Project Management

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GANTT Charts

Description

- Visual interpretation of the length of each task and the order in which they will be completed
- Can be easily done by hand
- Important in BUS 361

Purpose

- Used to help plan out projects
- Can identify the most important and most time sensitive activities (critical path)

Textbook Pages

Conceptual

- 5th Edition: pages 62-68
- 6th Edition: pages 50-57

Example

- 5th Edition: pages 80-85
- 6th Edition: pages 65-69

Example

Assumptions

- We're building a dovecote/pigeon coop
- Construction begins tomorrow
- Work every day of the week
- Thursdays off

Data

Activity	Activity Name	Predecessor	Days
1	Review other pigeon coop plans		2
2	Decide size and material requirements		3
3	Put together your coop plans	1, 2	4
4	Get city approval for your coop	3	7
5	Purchase coop materials	3	1
6	Purchase bedding materials	3	1
7	Purchase pigeon food		1
8	Cut materials to size	4, 5	2
9	Assemble materials into coop	8	1
10	Populate coop with food and bedding	9	2hr
11	Introduce pigeons to their coop	10	1

Assignment

Assumptions

- Project starts on May 30th
- No work on Canada Day
- Typical Monday - Friday workload

Data

Activity	Activity Name	Predecessor	Days
A	Study System Requirements		5
B	Feasibility Study	A	3
C	Finish the Formal System Request	A, B	4
D	JAD session (user input)	C	3
E	Prototype Development	C, D	6
F	Prototype Feedback	E	2
G	System Programming	F	10
H	Preliminary User Training	E	3
I	System Testing	G	4
J	Debugging and Usability Testing	H, I	3
K	Train users	J	5
L	Load Live Data	J	2
M	Go Live	K, L	2

Questions

1. Draw a PERT diagram for the sales commission system. Use Microsoft Project. Note that in MS Project, a PERT diagram is called a Network diagram. You create it automatically by generating a GANTT chart. You will need to use both the GANTT and PERT charts to manage the project schedule. When is the project currently scheduled to be completed?
2. The project should start on Monday, May 30, 2016 and be completed on normal Monday to Friday work days. Identify the critical path in the system project. Remember that Friday, July 1 is a statutory holiday (Canada Day) and the project won't be worked on that day. If it goes over that day, adjust your estimates to accommodate the statutory holiday.

Questions

1. Identify how many people will need to work on this project to ensure that the system is completed no later than Friday, July 29, 2016. To answer this question, you may assume that doubling the number of people for an activity reduces the time required to 65% of the original estimate, and tripling the number of people reduces the time required to 50% (round up). The column that provides estimated time should be interpreted to mean that one person could finish a given activity in the number of days shown.
2. Indicate what sorts of skills you think you need, and how the people will be assigned to the different activities. In any given context, the way you assign people will depend on many other variables apart from just the tasks to be done.
3. Justify the total number of people you will hire for the project (why not fewer? why not more?)