

Important characteristics of Project Management

- forces detailed planning
- improves communications
- · identifies potential problem areas
- provides management with timely progress reports
- offers ability to simulate effects of alternate decisions
- assists in long-range planning

 $\langle \neg c \rangle$

Project:

a set of complex interrelated tasks directed toward the accomplishment of an objective

Project Management

A system of procedures which provides for

- planning
- scheduling
- control

of a project

 $\langle \neg c \rangle$

Network Models of a Project

AOA: Activity on Arrow model

the tasks (activities) are represented by arcs (arrows) in the network

AON : Activity on Node model the tasks (activities) are represented by the nodes in the network

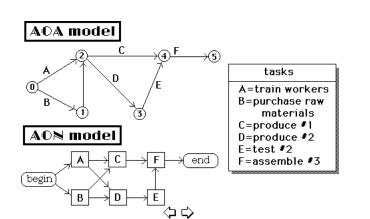
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Example

A company is about to introduce a new product (#3). One unit of product #3 is produced by assembling one unit of product #1 and one unit of product #2.

Before production begins on either product #1 or #2, raw materials must be purchased and workers must be trained.

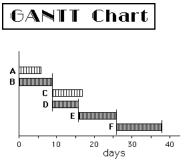
Before products #1&2 can be assembled into product #3, the finished product #2 must be inspected.



Tasks required for completion of project

task	predecessors	duration (days)
A = train workers	none	6
B = purchase raw mati	ls none	9
C = produce product #	1 A,B	8
D = produce product #2	2 A,B	7
E = test product #2	D	10
F = assemble product *	≠3 C,E	12

 $\langle \neg \ c \rangle$



Each activity is represented by a bar, which specifies the beginning and ending of the activity.



