Scheduling resources, Creating critical path

Introduction to Scheduling resources

- It is next step to resource requirement
- This is best done by representing the activity plan as a bar chart

Scheduling Resources(Cont..)

- Changing the level of resource on a project over a time , particularly personnel generally adds to the cost of a project

- Recurring staff has costs and even where staff are transferred internally time will be needed for familaization

Scheduling Resources(Cont..)

- Problem with an uneven resource histogram is that it is more likely to call for level of resource beyond those available

- In practice resource have to be allocated to a project on an activity by activity basis & finding the best allocation can be time consuming and difficult

Scheduling Resources(Cont..)

- By delaying start of some activity it has been possible to smooth the histogram and reduce maximum level of demand for the resource
- It is difficult to split task without increasing the time they take

Scheduling Resources(Cont..)

Two ways to prioritizing activities are

- Total float priority

- Ordered list priority

Scheduling Resources(Cont..)

Demerits

- Resource smoothing or even containment of resource demand to avail levels is not always possible within planned timescale.

Creating critical path

- Scheduling resource create new critical path
- Delaying start of activity may cause that activity to become a critical
- A delay in one activity in competing one activity can delay the avaibility of a resource required for a later activity.

Creating critical path

- In a large project, resource linked capability can be quite complex