

Network / Project Crashing Steps :-

- 1) Draw Network diagram
- 2) Calculate the activity cost slope by using formulae:
$$\frac{\text{Crash Cost} - \text{Normal Cost}}{\text{Normal duration} - \text{Crash duration}}$$

Also calculate scope for crashing by using formulae:
$$\text{Normal duration} - \text{Crash duration}$$

- 3) Now identify all the paths. Write down all corresponding activity cost slope below the activity. Note down CD and ND in other 2 columns.

Calculate Expected project duration = Highest of ND.
Cal Min duration reqd to complete the project = Highest of CD.

Calculate scope for crashing the project =
$$\text{Exp proj duration} - \text{Min duration reqd to complete the project}$$

- 4) Now take a crash decision

- a) Select critical path (Selected again after all steps)
- b) select activity with lowest activity cost slope.
- c) Decide No. of days to be crashed. (How)?
- d) Write down incremental cost by multiplying No. of days X Activity Cost slope.
- e) strike out the ND $\neq$ in step 3 by no. of days crashed.

A) Strike down and write scope of crashing by no. of days utilized.

Repeat until reqd. no. of days are crashed down keeping in mind

"Min. Incremental Cost".

Note : No. of days to be crashed cannot exceed scope for crashing.