

Project Planning & Control

Lesson 5

Two-Span Bridge: Activity- Duration- Predecessors

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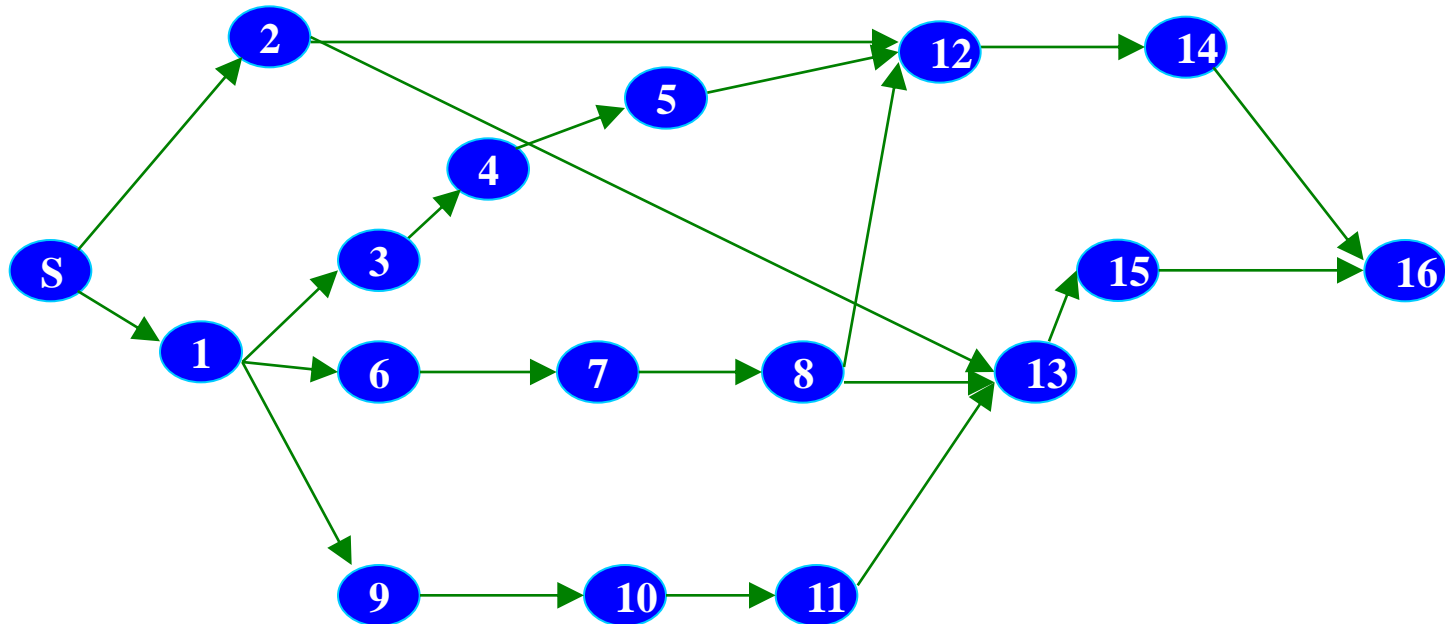
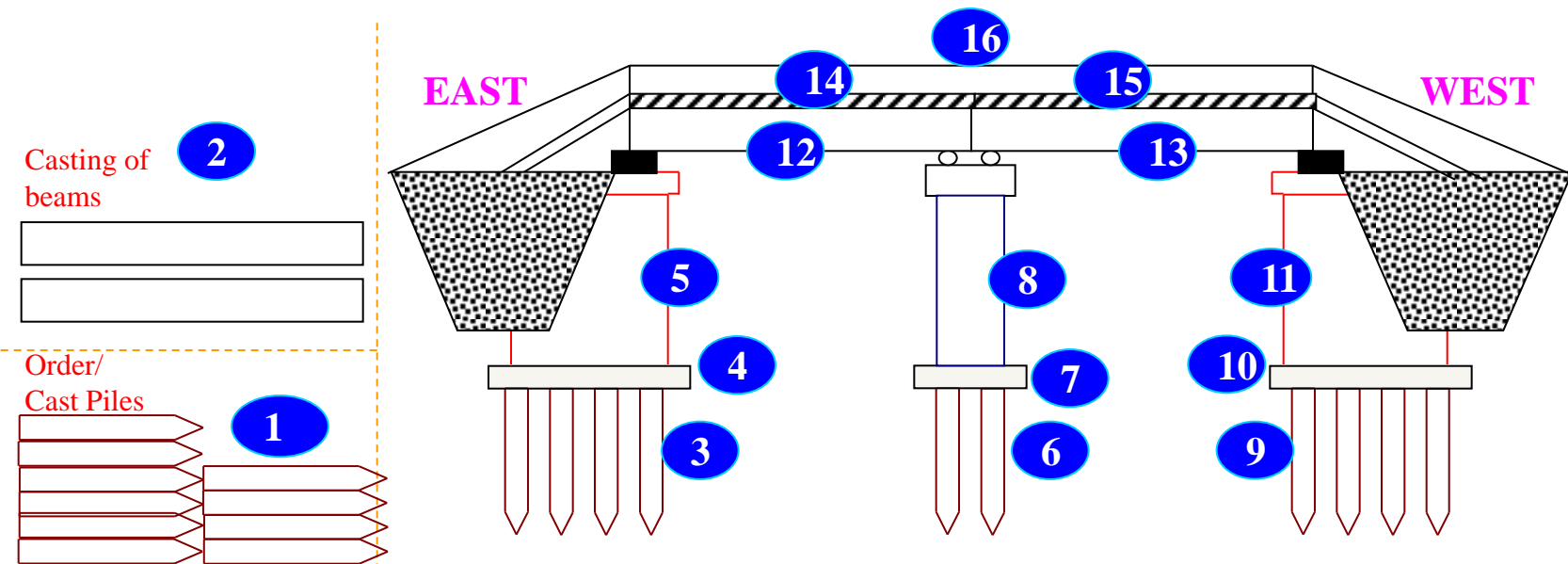


Two Span Bridge – Activity-Duration-Predecessors

No.	Activity	Duration (days)	Predecessor
1.	Order & Deliver Piles	15	Start
2.	Cast Beams	a.16 & b.20	Start
3.	Drive Piles East	12	1
4.	Const East Pile Cap	08	3
5.	Const E. Abutment	36	4
6.	Drive Piles Centre	6	1
7.	Const Centre Pile Cap	07	6
8.	Const Centre Pier	27	7
9.	Drive Piles West	12	1
10.	Const West Pile Cap	08	9
11.	Const W. Abutment	36	10
12.	Place Beams E. Span	07	2(a),5,8
13.	Place Beams W. Span	07	2(b),8,11
14.	Deck Slab East	15	12
15.	Deck Slab West	15	13
16.	Lay Roads	25	14,15

Draw Network. Do Network Analysis - Any Changes suggested ?

No Resource Constraints



Discussion Points

What are the resources needed for each activity ?

How does resource affect activity durations ?

Which activities ?

Should resource availability affect precedence relationship ?

How can the duration of the project be reduced ?

To be continued.....