

**Excercise2:** The following list of activities are necessary to replace the lightning rod:

<b>Activity</b>	<b>Description</b>	<b>Immediate Predecessors</b>	<b>Time (days)</b>
A	Job review	-	1
B	Advise customers of temporary outage	A	0.5
C	Requisition stores	A	1
D	Scout job	A	0.5
E	Secure poles and materials	C,D	3
F	Distribute poles	E	3.5
G	Pole location coordinate	D	0.5
H	Re-stack	G	0.5
I	Dig holes	H	3
J	Frame and set poles	F,I	4
K	Convert old conductors	F,I	1
L	Pull new conductors	J,K	2
M	Install remaining material	L	2
N	Sag conductors	L	2
O	Trim trees	D	2
P	Deenergize and switch lines	B,M,N,O	0.1
Q	Energize and phase new line	P	0.5
R	Clean up	Q	1
S	Remove old conductor	Q	1
T	Remove old poles	S	2
U	Return material to stores	R,T	2

- a. Draw the network model for this project (AOA network)
- b. Find critical path
- c. Compute the total slack and free slack of each activity