

GVT Case Study Solution

1. Answer will vary
2. Answer will vary
3. See table below

	Task	Optimistic	Most Likely	Pessimistic	PERT
A	PC purchase	5	15	30	16
B	Setup test machine	2	5	15	6
C	Installation of Comproc and JKT software	10	15	30	17
D	Compatability testing between Comproc and JKT	10	12	17	13
E	Floor wiring for LAN connectivity	20	30	35	29
F	Circuit install between JKT and Comproc	30	40	60	42
G	Modification of JKT and comproc network firewall	14	21	40	23
H	jkt Testing of traffic over circuit (firewall to firewall)	5	7	10	7
I	Obtain quotes for circuits.	1	3	4	3
J	Obtain quotes for PCs	1	2	3	2
K	Train Comproc workers on JKT software (new to them)	5	12	15	11
L	Setup helpdesk	10	20	30	20
M	Deploy PCs	10	12	15	12

4. Earliest completion is path 1-3-6-8-9-10 = 92

Other paths:

1-2-5-7-10 = 41

1-5-7-10 = 29

1-4-8-9-10 = 72

5. See table below

Task / Measure	month 1	month 2	month 3	total	% compl after month 1	EV after month 1

PC purchase	150,000			150,000	69%	103,500
PV (per schedule)	150,000	0	0	150,000		
AC (per real spend per month)	120,000	30,000	25,000	175,000		
CV = ev-ac	-16,500					
SV = ev-pv	-46,500					
CPI = ev/ac	86%					
SPI ev/pv	69%					
EV = pv to date X percent complete						
Floor Wiring For LAN	50,000				100%	50,000
PV (per schedule)	50,000					
AC (per real spend per month)	60,000					
CV = ev-ac	-10,000					
SV = ev-pv	10,000					
CPI = ev/ac	83%					
SPI ev/pv	100%					
EV = pv to date X percent complete						
Circuit Install for LAN						
PV (per schedule)	10,000	2,000	0	12,000	73%	7,300
AC (per real spend per month)	11,000	4,000				
CV = ev-ac	-3700					
SV = ev-pv	-2700					
CPI = ev/ac	66%					
SPI ev/pv	73%					
EV = pv to date X percent complete						
Modify firewall rules						
PV (per schedule)	2000	1000	1000		100%	2000
AC (per real spend per month)	2000	0	0	2000		
CV = ev-ac	0					
SV = ev-pv	0					
CPI = ev/ac	100%					
SPI ev/pv	100%					
EV = pv to date X percent complete						

percent complete is AC to date/ total AC						

Formulas:

EV = pv to date X percent complete

Percent complete is actual cost/ total actual cost

example for PC purchase 120/175 = 69%

The total AC for modify firewall is

2000

(zero for month 2,3)

6. Will vary

7. See below

\$70,000	\$49,000	
\$25,000	\$7,500	
	\$56,500	QTC

\$60,000	\$36,000	
\$17,000	\$6,800	
	\$42,800	Company A

\$80,000	\$64,000	
	-	
\$45,000	-\$9,000	
	\$55,000	Company B

8. Will vary

9. Will vary

10. Will vary