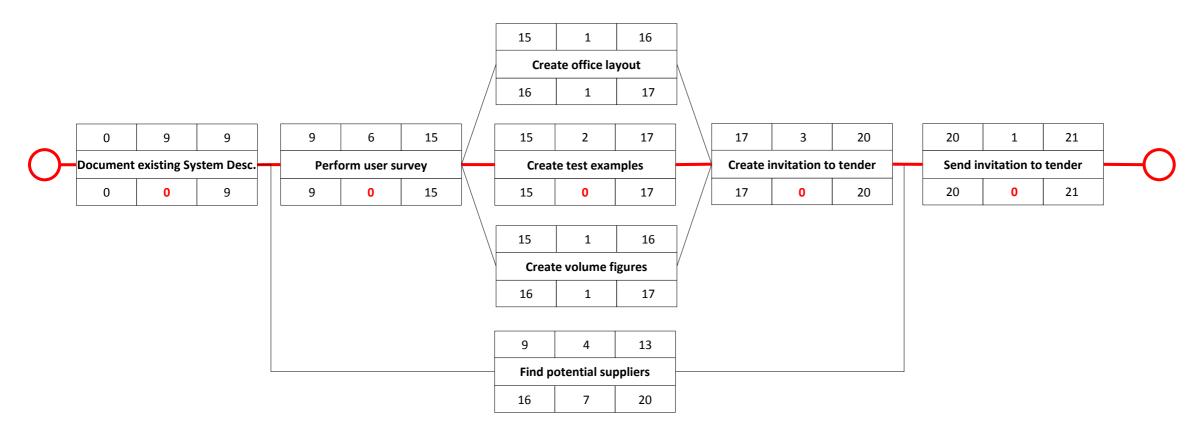
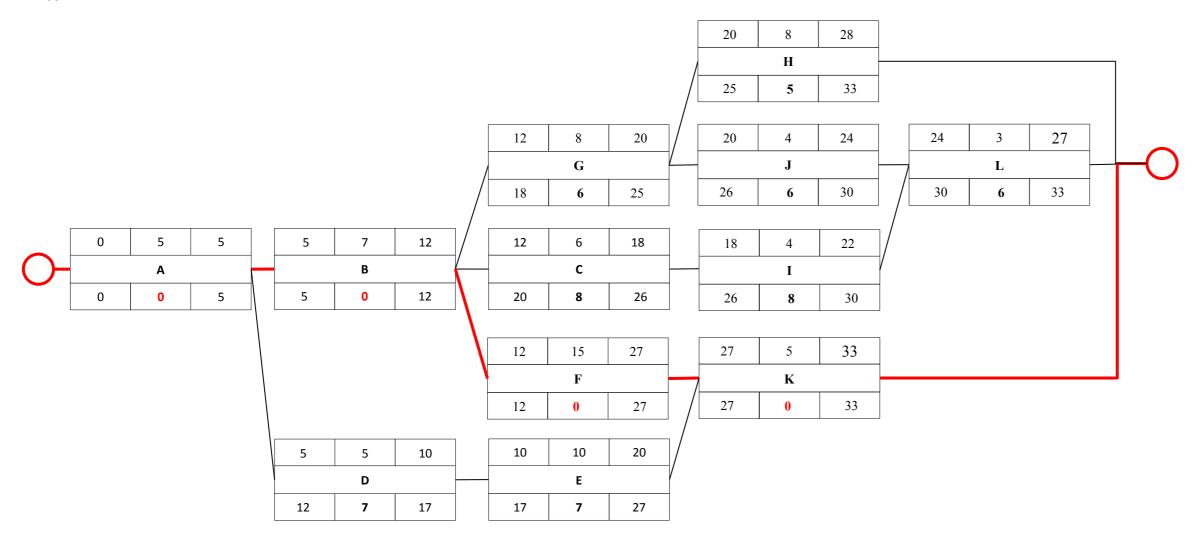
Task 1



The critical path is marked in bold red – document existing system description -> perform user survey -> create test examples -> create invitation to tender -> send invitation to tender. Within this path all possible delays (floats) are 0.

The earliest possible finish date is after **21 days**.

Task 2



The critical path is marked in bold red – A -> B -> F -> K. The earliest possible finish date is after 33 days.

Task 3: Selection of Requirements Management/Engineering tool(s)

- Organize and perform surveys
- Organize and lead group meetings
- Review product or requirement specifications
- Create work / expert groups within project
- Resource selection (e.g. create job specifications)
- Time planning and resource scheduling
- Create budget plan, calculate a product's impacts
- Analyze and evaluate risks and feasibility

- ...

Task 4

Effort modifier (em)	Estimates	Multiplier
FCIL	Low	1.10
RCPX	Very Low	0.60
RUSE	Nominal	1.00
PDIF	Very High	1.81
SCED	Very Low	1.43
PERS	Extra Low	2.12
PREX	Low	1.12

effort = estimated effort 
$$\cdot \prod_{i=1}^{n} em_i = 110pm \cdot 1.10 \cdot 0.60 \cdot 1.00 \cdot 1.81 \cdot 1.43 \cdot 2.12 \cdot 1.12 \approx 446.18pm$$

The chosen modifiers enlarge the overall project to **446.18 person-months**.

## Task 5: Speed-control system

a)  $function\ points = 53$   $fp2Java = 53\ LOC$   $locInJava = function\ points \cdot fp2Java = 53 \cdot 53LOC = 2.809LOC$  The planned project would contain approximately **2.809 lines of code**.

b) c = 3.6 (embedded mode)

$$k = 1.2$$

$$effort = c \cdot size^k = 3.6 \cdot 2.809^{1.2} = 12.43pm$$

The planned project would need 12.5 person-months.