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Exercise 6, Project Management

**Task 1**

**Document existing System Desc.**

0

9

9

0

**0**

9

**Perform user survey**

 9

6

15

 9

**0**

15

**Find potential suppliers**

9

 4

13

16

 7

20

**Create test examples**

 15

2

 17

 15

**0**

 17

**Create volume figures**

15

 1

 16

16

 1

 17

**Create office layout**

15

 1

16

16

 1

 17

**Create invitation to tender**

17

 3

 20

17

**0**

 20

**Send invitation to tender**

20

 1

21

20

**0**

21

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**

**A**

0

5

5

0

**0**

5

**B**

 5

7

12

5

**0**

12

**C**

 12

6

18

 20

**8**

 26

**D**

5

5

10

12

**7**

17

**E**

 10

10

20

 17

**7**

27

**G**

 12

8

 20

 18

**6**

25

**F**

 12

15

27

 12

**0**

 27

**J**

 20

4

24

26

**6**

30

**I**

 18

4

22

 26

**8**

 30

**H**

 20

8

28

 25

**5**

 33

**K**

27

5

33

27

**0**

 33

**L**

24

3

27

 30

**6**

33

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 |

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

**Task 5**: Speed-control system

The planned project would contain approximately **2.809 lines of code**.

1. (embedded mode)

The planned project would need **12.5 person-months**.