* **Mentoring Via EVM**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Task ID** | **Activity** | **Pred.** | **Duration**  **(month)** | **Budget**  **(k$)** | **Progress** | **AC** |
| 1 | Preparation | - | 2 | 600 | 100% | 600 |
| 2 | Design | 1 | 3 | 1200 | 100% | 1400 |
| 3 | Implementation | 2 | 2 | 400 | 50% | 200 |
| 4 | Testing | 3 | 3 | 1200 | 33.3% | 500 |
| 5 | Deployment | 4 | 3 | 300 | 0% | 0 |

**Total Budget: 600+1200+400+1200+300 = 3700 k$**

**Total Actual Cost: 600+1400+200+500+0 = 2700 k$**

**Total Expected Cost till now= 600+1200+200+400(33.3%) +0= 2400 k$**

**Total Expected Actual budget: 600+1400+400+1500+300= 4200 k$**

**Total Duration: 2+3+2+3+3 = 13 month**

**Total actual Duration = 7 months**

**Total Expected Duration in schedule till now = 2+3+1(50%) +1(33.3%) = 7**

* **Till now the project is over budget since 2400k$ < 2700k$**
* **At the end of the project, it will be over the budget by 500 k$ (4200-3700)**
* **Since the Project started 7 months ago, Therefore the project is neither ahead nor behind the schedule**
* Cost Variance (CV)= Earned Value (EV) – Actual Cost (AC)
* CV= 2400 – 2700 = -300k$
* Schedule Variance (SV)= Earned Value (EV) - Planned Value (PV)
* SV= 2400 -2400 = 0
* Cost Performance Index (CPI)= Earned Value (EV) / Actual Cost (AC)
* 2400/2700= 0.88
* Schedule Performance Index (SPI)= Earned Value (EV) / Planned Value (PV)
* 2400/ 2400 = 1

## Budget at Completion (BAC)= Project Budget

## BAC= 3700k$

## Estimate at Completion (EAC)= Budget at Completion (BAC) / Cost Performance Index (CPI)

* 3700 / 0.88 = 4200K$