

COMP 4356 - Software Project Management

Chapter 7: Project Cost and Budget

Assignment #4

Page 1 of 2

Due Date: November 01, 2015 Name: Geraldo Braho Grade: _____

Problem 1:

A project team has a project to build a software system with a total budget of \$1,500,000 dollars. The project is scheduled to be completed in 50 weeks and braked down into 2 tasks/business day. (working weekly days are Monday to Friday)

After 3 weeks, 20 tasks were completed and the total cost was \$85,000.

1. Find the cost and schedule variances.

Planned Value = Planned Completion * BAC = 6% * 1500000 = 90000Earned Value = Actual Completion * BAC = 4% * 1500000 = 60000Cost Variance = EV – AC = 60000 - 85000 = -15000Schedule Variance = EV – PV = 60000 - 90000 = -30000

2. Calculate the estimated cost and time to complete the project.

CPI = EV/AC = 60000 / 85000 = 0.706 ECAC = TBC/CPI = 1500000 / 0.706 = 2124645.9

Problem 2:

You have a project to install Microsoft Windows 10 on all the machines at the local hospital of 8 departments, total of 600 computers. The project plan is to complete 100 computers /day. The budgeted cost for each computer is \$90.

After day 1, 70 computers were completed and the total cost was \$ \$12,500 (extra resources were needed).



1. Find the cost and schedule variances.

Planned Value = Planned Completion * BAC = 16.67 % * 54000 = 9001.8

Earned Value = Actual Completion * BAC = 11.67 % * 54000 = 6301.8 Cost Variance = EV – AC = 6301.8 – 12500 = - 5698.2 Schedule Variance = EV – PV = 6301.8 – 9001.8 = - 2700

2. Calculate the estimated cost and time to complete the project.

CPI = EV/AC = 6301.8 / 12500 = 0.504 ECAC = TBC/CPI = 54000 / 0.504 = 107142.9