

SE 4381 Software Project Planning and Management

Homework #5 – Earned Value Management

Given a project that has a total budget of \$470K. It is a 10-month project, reporting status monthly.

It is now the end of month 6. For the first six months, \$300K was allocated according to the allocation

- Month 1 \$30K
- Month 2 \$35K
- Month 3 \$35K
- Month 4 \$50K
- Month 5 \$70K
- Month 6 \$80K

The budget for the remaining four months is \$60K, \$50K, \$35K, and \$25K respectively.

The actual cost expended in the first six months was \$38K, \$39K, \$42K, \$45K, \$50K, and \$90K, respectively. The value received, in terms of the amount of work planned to be done for each month, was \$28K, \$32K, \$33K, \$35K, \$45K, and \$80K respectively.

- a) For each of the six reporting periods, what was the planned value, actual cost, and earned value?
- b) What is the schedule variance and cost variance at the end of each reporting period?
- c) What is the schedule performance index and cost performance index at the end of each reporting period?

Grading Rubric

PV, AC, EV, SV, CV, SPI, CPI values for periods 1-6, 2 points each (7*6*2=84 points total)

PV for periods 7-10, 1 point each (3 points max total)

Chart with AC, EV, and PV correctly plotted, 4 points per line, 12 points total