

Earned Value Analysis

Q1) Given a project with Earned Value (EV) = 350, Actual Cost (AC) = 300 and Planned Value (PV) = 400. Such that the original project budget is 1,000. We assume that the remaining work will be impacted by the current cost performance and current schedule performance. Find is the Estimate At Completion (EAC) of the project.

1. 837.0
2. 937.0
3. 987.0
4. 1280.0

Answer: 2) 937.7

Q2) State whether the following statement holds True/False. "Earned Value Management is a methodology that measures the value of a project as dollars are spent."

1. True
2. False

Answer: 2) False

Q3) Which of the following project manager initiatives helps to ensure proper Earned Value management system?

1. Develop a realistic plan of the work space, budget and schedule
2. Authorize work properly
3. Performance reporting
4. All of these

Answer: 4) All of these

Q4) As a project manager of a road paving project. Given a total of 10 km of road is to be paved over a 5-month period. Such that the total budget for the project is 10,000. The project is now at the end of the 3rd month with 8km of road paved and 8,000 spent. Find the Schedule Performance Index (SPI) for the project.

1. 0.78
2. 0.98
3. 1.2
4. 1.33

Answer: 4) 1.33

Q5) A project with both Schedule Performance Index (SPI) and Cost Performance Index (CPI) of 0.80 indicates _____.

1. Ahead of schedule and under budget
2. Behind schedule and under budget
3. Ahead of schedule and over budget
4. Behind schedule and over budget

Answer: 4) Behind schedule and over budget

Q6) A project with a Cost Performance Index (CPI) of 0.90, indicates _____.

1. 90% of the work planned to date has been completed
2. 90% of the budget planned to date has been spent
3. 111% of the budget planned to date has been spent

4. 111% of the project budget has been spent

Answer: 3) 111% of the budget planned to date has been spent

Q7) Which of the following questions are answered by Earned Value?

1. What value of work should have been completed
2. How much value have we realized so far
3. How much money has been spent to date to get the project where it is today
4. All of these

Answer: 4) All of these

Q8) Given, a project with Earned Value (EV) = 250, Actual Cost (AC) = 200 and Planned Value (PV) = 350. Find the Cost Performance Index (CPI).

1. 1.25
2. 0.8
3. 0.71
4. 1.4

Answer: 1) 1.25

Q9) With reference to EVM, _____ represents the outstanding amount of money required to finish the project.

1. Planned Value (PV)
2. Earned Value (EV)
3. Estimate to Complete (ETC)
4. Estimate to Completion (EAC)

Answer: 3) Estimate to Complete (ETC)

Q10) Given the project with Earned Value (EV) = 300, Actual Cost (AC) = 350 and Planned Value (PV) = 400. Such that the overall project budget is 1,000. Assume that you will continue to spend at the same rate as you are currently spending. What is the Variance At Completion (VAC)?

1. -150.0
2. 150.0
3. -167.0
4. 167.0

Answer: 3) -167.0