

Information Technology CS编程辅导

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Assignment Project Exam Help

Lecture 10 (Part 2)

Monitoring and Controlling

Learning Obje 程序的写代做 CS编程辅导

- Understand what i by monitoring and control
- Understand the integrated change control process
- Understand how to rhohitor and cost issues
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- A revisit of Earned Value Management (EVM)

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Mapping Projects Management Process Groups to Knawledge Areas

Knowledge Areas	oject Management Proces Group					
	Initiating	PI Tuter CS	Executing	Monitoring & Controlling	Closing	
	1. Develop Project	2.	3. Direct & manage	5. Monitor & control	6. Close Project or	
Project Integration	Charter	Management Plan	project work	project work	Phaase	
Management		WeChat: cs	4. Manage Project			
		1. Plan Scope		5. Validate Scope;		
Project Scope Management		Management 2. A Self Million 3. Define Scope	t Project E	6. Control Scope Exam Help		
		4. Create WBS	mag (0) 162	0.00		
Project Schedule Management		1. Management		(d). Control Schedule		
		2. Define Activities 3. Sequence Activities 8	9476			
		4. Estimate Activity				
		Durations 5. Develops chedure to	rcs.com			
		1. Plan Cost		4. Control Costs		
Project Cost		Management				
Management		2. Estimate Costs				
		3. Determine Budget				



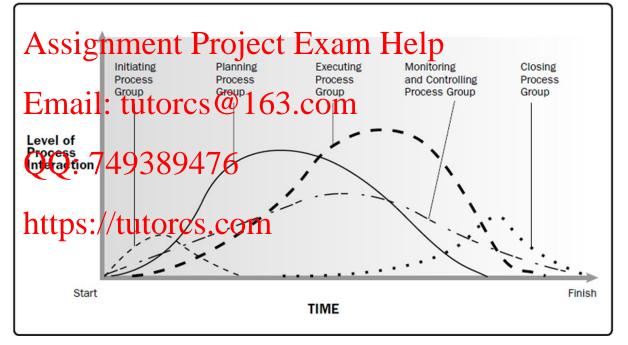
Source: PMBOK® Guide, Sixth Edition, 2017.

程序代写代做 CS编程辅导 Continued...

Knowledge Areas	Project Management Process Group					
	Initiating		Executing	Monitoring & Controlling	Closing	
Project Quality		1.	2. Manage Quality	3. Control Quality		
Management		Ma Tutor CS				
Project Resource Management		2. Estimate Activity Resources	3. Acquire Resource4. Develop Team5. Manage Team	6. Control Resources		
Project		1. Plan Communications	Stutores	3. Monitor		
Communication		Management	Communications	Communications		
Management		Assignmer 1. Plan Risk Management	t Project	Exam Help		
Project Risk Management		2. Identify Risks 3. Ferform Qualitative CRISK Analysis 4. Perform Quantitative Risk Analysis 74938 5. Plan Risk Responses	responses 163.			
Project Procurement Management		1. Introvention	PCSnCOM Procurements	3. Control Procurements		
Project Stakeholder Management	1. Identify Stakeholders	2. Plan Stakeholder Management	3. Manage Stakeholder Engagement	4. Monitor Stakeholder Engagement		
MONASH Un	iversity	Source: PMBOK® Gu	iide, Sixth Edition	, 2017.		

Monitoring &程序仍有价 CS编程辅导

Process overlap



Monitoring V号。Control CS编程辅导

concerning previo elements



 <u>Control</u> uses the information supplied by the monitoring techniques in order to bring project actual results in line with stated project performance standards Help

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Keys to Effective Monitoring and Controlling

- The organisation ar the manager must foster an environment that all the honest reporting of results
- To reduce the chances for biased reporting the process should be as automated as possible and there needs to be a separation of responsibilities
- Time must be allocated in the project Exam Help tasks of monitoring and control to perform the tasks of monitoring and control to perform the tasks of monitoring and control to the tasks of monitoring
- Lastly, all members of the project team, stakeholders, and other management resources should receive training on effective monitoring and control techniques.com



Integration Management Processes

- Develop the Project
- Develop the project
- Direct and manage project execution
- Monitor and control the project work: Oversee project work to meet the performance objectives of the project
- Perform integrated change control: Coordinate changes that affect the project's delivarables of the project of

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Integrated Change Controls (refer to lecture 音道表面)

- A formal process use to be a solution of the solution of the solution.
 A formal process use to be a solution of the solution of the solution.
- Key activities

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- Identifying that a change needs to occur or has occurred
- Establishing a governance structure for reviewing and approving requested changes @ 163.com
- Managing the approved changes when and as they occur OQ: 749389476
- Maintaining the integrity of project artifacts, as changes occur
- https://tutorcs.com
 Communication to all relevant stakeholders
- Configuration management



Project Cost Management Processes

- Plan Cost Managen
- Estimate costs
- Determine budget
- Control Cost: controlling changes to the project budget

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Cost Control 程序代写代做 CS编程辅导

- Is concerned with:
 - influencing the hat create cost variances on the project and
 - controlling changes to the throject's budget
- Like the other monitoring and control processes, cost control is a <u>continual</u> process of companing the current actual project expenditures to the defined budget and determining when issues have arrived that need to be dealt with



Earned Value Management (世文M)

- A technique used to the military ermine and manage project progress and the military of any variations from the planned values concerning of the dule, and performance
- The technique was exected to help the project team and stakeholders gain a better understanding of just how the project is performing
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- Many project managers fail to evaluate performance properly
 - How much work has actually been completed and how much work actually remains
 - Not necessaril http://http:/



Percent Complete CS编程辅导

Often times IT proje
 Often times IT proje

- 0-100 percent L

50-50 percent rule

WeChat: cstutorcs Interval percent rule (0, 25, 50, 75, 100)

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EVM Key Val链序代写代做 CS编程辅导

Recall from Lecture 6

- Planned Value (PVIII) budgeted cost for the work scheduled to be completed on a task, work package, or activity up to a given point intime (BCWS) orcs
- Actual Cost (AC) is the total cost incurred in accomplishing work on the task during a given time period (ACWP)
- Earned Value (EV) Empth to the total set of the work actually completed on the task during a given time period or EV = (PV)*(percent complete) (BCWP)

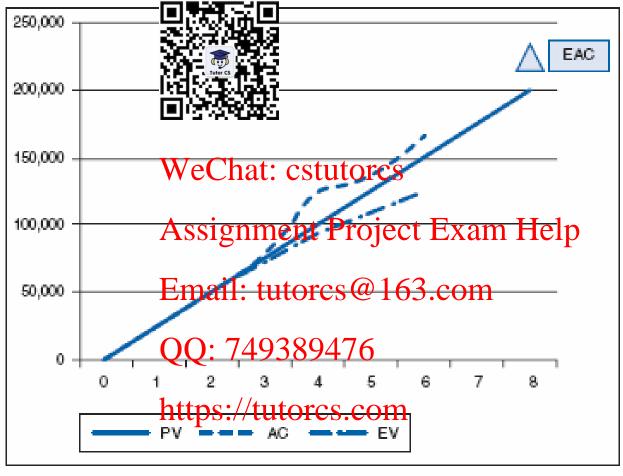


EVM Key Valtes代写代做 CS编程辅导

- Schedule Variance use use use use use use (EV) minus planned value (PV) or SV = EV PV
- WeChat: cstutorcs
 Cost Performance Index (CPI) = equals the ratio of EV to the AC, or CPI = EV/AC
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 - Equal to 100% then Actual = Planned Email: tutorcs@163.com
 - Less than 100% then project is over budget
- Schedule Performance Index (SPI) equals the ratio of EV to the PV, or SPI = EV/PV https://tutorcs.com
 - Equal to 100% then Actual = Planned
 - Less than 100% project is behind schedule



PV, AC and EK序代写代做 CS编程辅导



Brewer (2013). Methods of Information Technology Management .p.365.

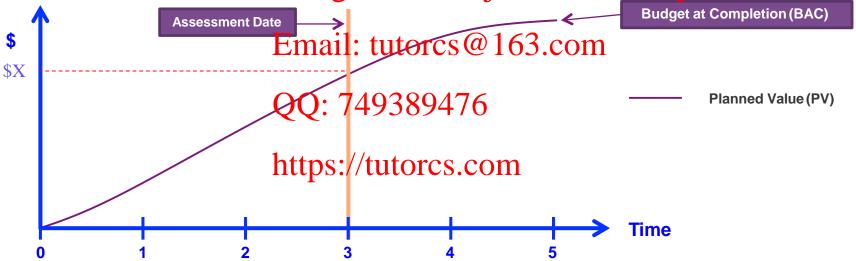


Planned value 伊尔 写代做 CS编程辅导

Planned Value (PV) to be completed on a in time

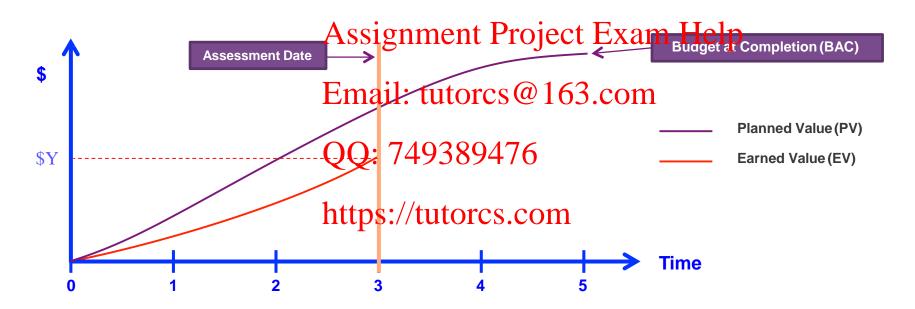
- dgeted cost for the work scheduled k package, or activity up to a given point
- Also referred to as the budgeted cost of work scheduled (BCWS).
- The final PV of a taskyis equal to the task's budget at completion (BAC), i.e. the total amount budgeted for the task.

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Earned value (色场)代写代做 CS编程辅导

- Earned Value (EV) Significant subjected amount for the work actually completed (ECWP)
 - EV = (Project B □ ; ; ; ; ; rcent complete)
- Also referred to as the budgeted cost of work performed (BCWP).



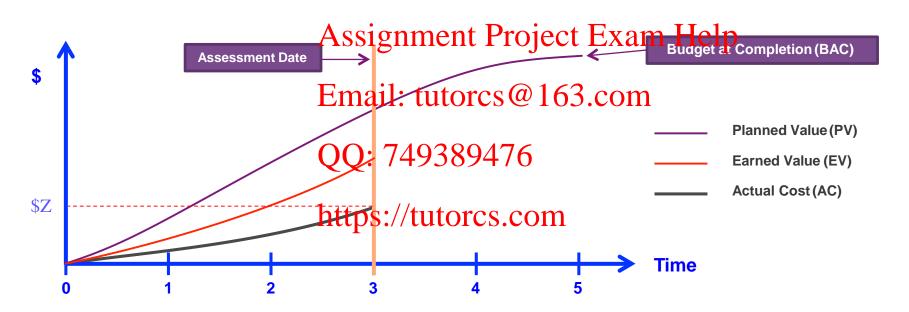


Actual Cost (A包)字代写代做 CS编程辅导

 Actual Cost (AC) – on the task during a

- cost incurred in accomplishing work period
- Also referred to as the actual cost of work performed (ACWP).

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Example

程序代写代做 CS编程辅导

Q. A project has a budge that the total budget will reached. After 2 months the is finished and a total of \$\\ \ext{1.5}



and schedule for 10 months. It is assumed equally each month until the 10th month is manager finds that only 5% of the total work

Find out how the project is progressing in terms of schedule and budget.

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- Budgeted Cost scheduled for each month is = \$10M/10 months = \$1M
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- Planned Value (BCWS) = \$2M

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Earned Value (BCWPQ: \$749038947\$0.5M

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Actual Cost (ACWP) = \$1M

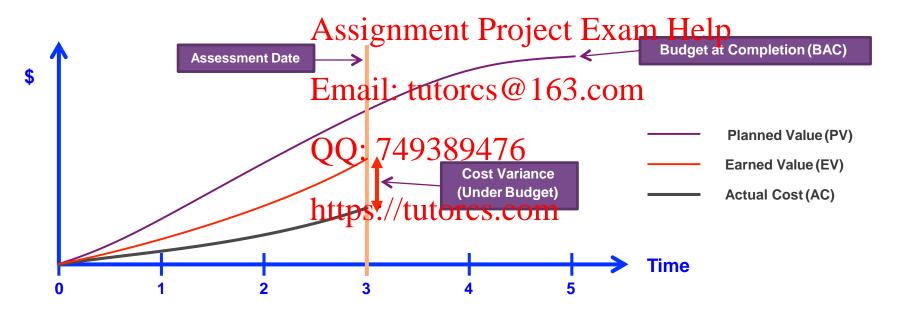


Cost Variance 代外写代做 CS编程辅导

Shows **whether** and by **hour limits** project is under or over the approved budget.

CV = EV - AC

- > Negative CV means the little ver the budget (cost overrun).
- > Positive CV means the project is below the budget.
- This is the actual **dollar value** by which a project is either **overrunning** or **under running** its estimated cost. CStutorCS



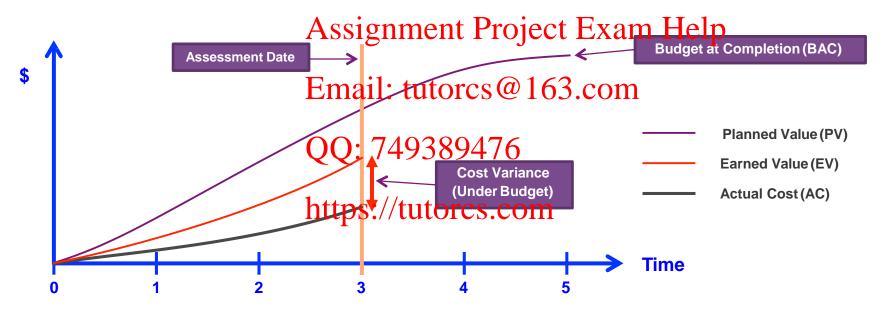
Cost Performaffce作品位数分布中静导

CPI showing the project's project.



CPI = EV /AC

- Equal to 100% then Actual = Planned
- Less than 100% then project is over the budget.
- More than 100% then project is below the budget

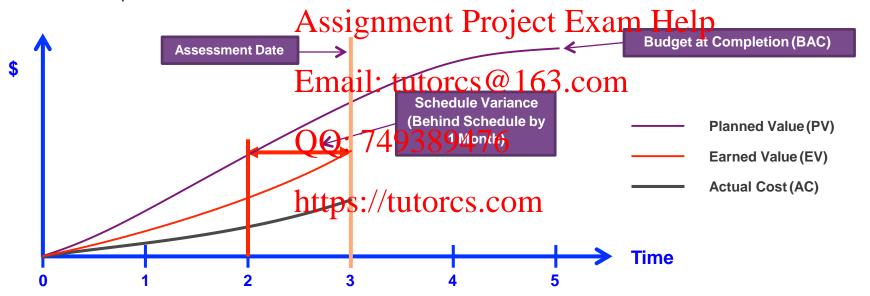


Schedule Variance (多以) 做 CS编程辅导

SPI shows whether your **Little Little** of or behind your approved schedule.

SV = EV - PV

- Negative SV means the project is ahead of schedule
- SV is calculated in terms of the difference in **dollar value** between the amount of work that should have we Chapte estintages n time period and the work actually completed.

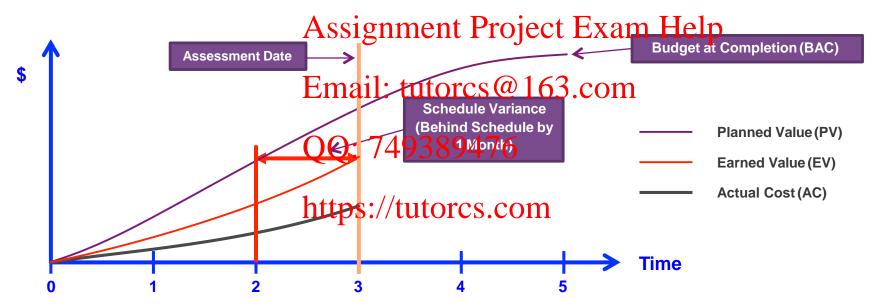


Schedule Performance (Mdicator)(SPI)

SPI indicates the **rate** at where the second is sometimed as a second is sometimed as a second is sometimed as a second is sometimed. The second is sometimed as a second is sometimed.

SPI = EV / PV

- Equal to 100% then Actual = Planned
- Less than 100% projectis behind schedule CSTUTORCS
- More than 100% project is ahead of schedule



EXAMPLE- Cost/Buaget CS编程辅导

that the total budget will be is finished and a total of \$1

Q. A project has a budget (schedule for 10 months. It is assumed ally each month until the 10th month is reached. After 2 months the state anager finds that only 5% of the total work

Find out how the project is progressing in terms of schedule and budget.

PV = \$2M

EV = \$0.5M AC = \$1M

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-CV = EV - AC

= 0.5 - 1

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= - 0.5M (Cost overrun) OO: 749389476

CPI = EV / AC

= 0.5 / 1

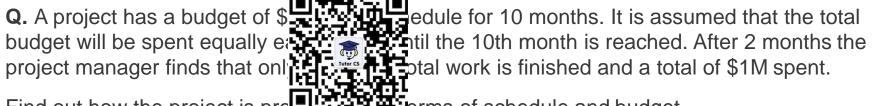
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= 0.5 (Cost overrun)

25

Example - Schedule写代做 CS编程辅导

Q. A project has a budget of \$ 4.00



Find out how the project is pro-Eerms of schedule and budget.

$$PV = $2M$$

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SV = EV - PV

= 0.5 - 2

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= -\$1.5M (Behind schedule)

SPI = EV/PV

= 0.5/2

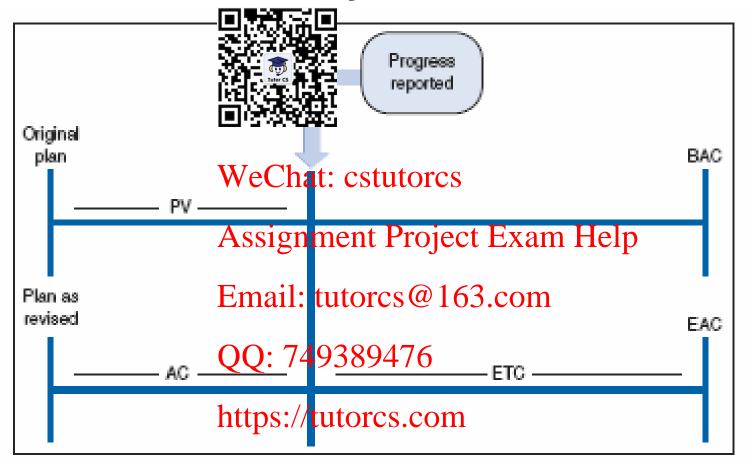
= 0.25 (Behind schedulettps://tutorcs.com

- Currently we are 75% behind schedule i.e. (1–SPI)*100%, since we have only achieved 25% of the schedule.

More EVM Key Values CS编程辅导

- BAC Budget at Com
 - How much did GET for the Total Job?
- **ESTIMATE TO COMPLETE**Estimate to Complete Complete
 - From this point on, how much MORE do we expect it to cost to finish the jappnent Project Exam Help
 - ETC = (BAC- EV)/CPI tutorcs@163.com
- **EAC** Estimate at 749389476
 - What do we chrestly expect the TOTAL project to cost?
 - EAC = AC + ETC

EVM Terms 始於以為所以做 CS编程辅导



Brewer (2018). Methods of Information Technology Management .p.364.



Example - Schedule与结构2S编程辅导

Q. A project has a budget () is finished and a total of \$1



Find out how the project is progressing in terms of schedule and budget.

PV = \$2M

EV = \$0.5M AC = \$1M

CPI = 0.5

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Budget at completion (BAC) = \$10m tutorcs@163.com

Estimate to complete (ETC) = (BAC – EV) / CPI = (10 - 0.5) / 0.5 = \$19m

Estimate at Completion (EAC) = 49389476 19 + 1 = \$20m

Report Performance CS编程辅导

- Report Performa lecting and disseminating performance information
- Performance repoletion of all project and product related data and the distribution of performance information to stakeholders
- Project related data in cludestil from more pall areas of the project including: schedule, costs, quality, risks, human resources, and if the ded brownent
- The frequency of the reports (daily, weekly, monthly) is determined by the type of report, size of the project and the importance of the project as stated in the communication plan



Performance程序的形式 Categories

- Projection reports ssignment ernied of the model of the same of
 - Earned Value Fumberstor Estimate an Completion (EAC), Estimate to Complete (ETC), Schedule Performance Index/(SB)9476 Cost Performance Index (CPI).
 - The report is forward looking giving projections/forecasts of the project finish
- Exception reports exceptions, problems, risks



Final Thoughts on EVW S编程辅导

The results are only as the data accuracy

- If numbers generated in a proactive manner instead of a reactive mode
- Make sure to establish rules for progress reporting (percent complete) early in the project then communicate and educate all project team members for consistency across all tasks

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