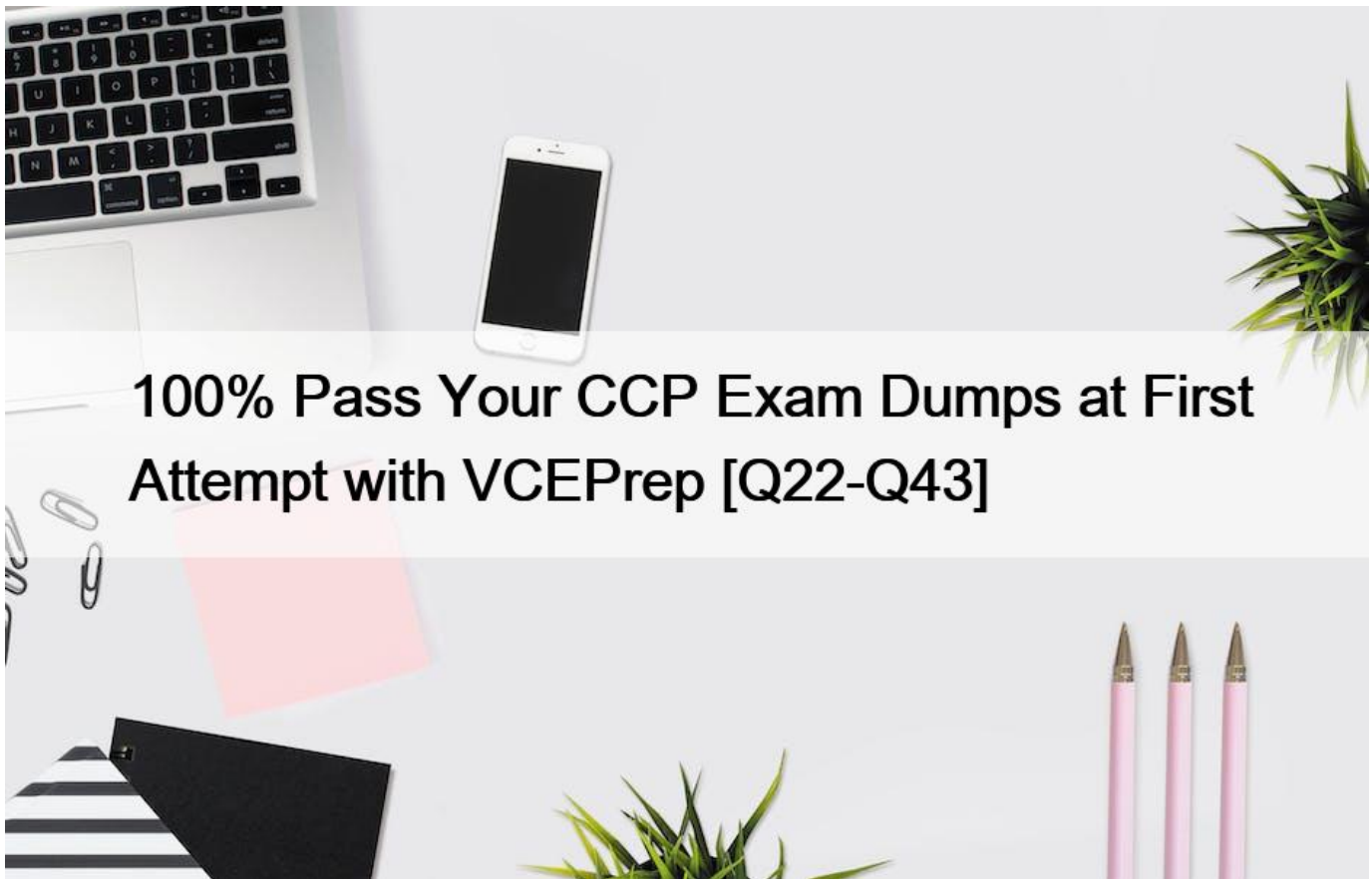


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NEW QUESTION 22

An agricultural corporation that paid 53% in income tax wanted to build a grain elevator designed to last twenty-five (25) years at a cost of \$80,000 with no salvage value. Annual income generated would be \$22,500 and annual expenditures were to be \$12,000.

Answer the question using a straight line depreciation and a 10% interest rate.

How many years will it take to earn \$400 in interest on \$800 at 4% compounded annually?

- * 10 years
- * 11 years
- * 12 years
- * 13 years

NEW QUESTION 23

A major theme park is expanding the existing facility over a five-year period. The design phase will be completed one year after the

contract is awarded. Major engineering drawings will be finalized two years after the design contract is awarded and construction will begin three years after the award of the design contract. New, unique ride technology will be used and an estimate will need to be developed to identify these costs that have no historical data.

In an exit interview, an employee comments that the reason he is leaving the organization is lack of teamwork and cohesion among his co-workers. Which need of Maslow's hierarchy of needs is unmet?

- * Belongingness needs
- * Primary needs
- * Self-actualization needs
- * Esteem needs

NEW QUESTION 24

You have estimated that the present day price for a piece of equipment is \$350,000. The delivery of the equipment is scheduled 30 months from today. The price of the equipment has been separated into the following categories:

Category	Percent
Steel	30
Copper	30
Manufacturing Labor	40

Based on information from forecasting services, the current cost index value and the expected inflation rate for each commodity is as follows:

INFLATION RATE (projected)

Commodity	Current Index	Year 1	Year 2	Year 3	Year 4
Steel	2.40	2.5%	2.5%	3.0%	2.0%
Copper	4.20	1.0%	1.5%	2.0%	2.0%
Manufacturing Labor	6.50	2.5%	3.0%	3.0%	3.5%

The following question requires your selection of CCC/CCE Scenario 6 (2.7.50.1.3) from the right side of your split screen., using the drop down menu, to reference during your response/choice of responses.

What is the range of unit costs?

- * \$21.57
- * \$26.65
- * \$48.22
- * \$485.00

NEW QUESTION 25

Money is value. Having money when you need it is very important. Money can also be valuable when used wisely by knowing when to spend and when to conserve Also, planning now for future expenses can be a plus to the company rather than a debit.

There are several ways to capitalize money and spending. Basically there is the single payment method that has a compound amount factor and a present worth factor. There is the uniform annual series that has a sinking fund factor, capital recovery factor and also the compound amount factor and present worth factor. At this point, we can assure money is worth 10%.

The following question requires your selection of CCC/CCE Scenario 7 (4.8.50.1.1) from the right side of your split screen, using

the drop down menu, to reference during your response/choice of responses.

If \$20,000 is invested at the end of each fiscal year for the next 10 years, how much would our total investment be worth assuming the interest is at 10%?

- * \$289,370
- * \$318,740
- * \$265,798
- * \$420,236

NEW QUESTION 26

You have been hired as the cost engineer for a mechanical contractor and have provided the following information:

Total budgeted hours 12,000
The planned project duration in days 130

Rules of credit are as follows:

Pipe received	5%
Hangers installed	10%
Pipe in place	30%
Welded	50%
Flushed	5%

The following question requires your selection of CCC/CCE Scenario 2 (2.3.50.1.2) from the right side of your split screen, using the drop down menu, to reference during your response/choice of responses.

10,278 hours have been expended to date. The CPI at this point in time is 0.93. SPI is

1.03. How many hours were planned?

- * 10,586
- * 9,280
- * 9,559
- * 10,278

NEW QUESTION 27

The purpose of a communication must be understood by _____ if the message is to be clear to the

- * Workers; management
- * The speaker; the receiver
- * Management; workers
- * The receiver; the speaker

NEW QUESTION 28

A major theme park is expanding the existing facility over a five-year period. The design phase will be completed one year after the contract is awarded. Major engineering drawings will be finalized two years after the design contract is awarded and construction will begin three years after the award of the design contract. New, unique ride technology will be used and an estimate will need to be developed to identify these costs that have no historical data.

The following question requires your selection of CCC/CCE Scenario 26 (2.5.50.1.2) from the right side of your split screen, using the drop down menu, to reference during your response/choice of responses.

What class of estimate is used for the preliminary design phase of a project?

- * Class 5; order of magnitude estimate with +50% / -30% accuracy
- * Class 1; order of magnitude with +30% / -30% accuracy
- * Class 4; budget estimate with +30% / -15% accuracy
- * Class 2; definitive estimate with +15%/-5% accuracy

NEW QUESTION 29

NO: 37

You have been hired as the cost engineer for a mechanical contractor and have been provided the following information:

Total budgeted hours 12,000
The planned project duration in days 130

Rules of credit are as follows:

Pipe received	5%
Hangers installed	10%
Pipe in place	30%
Welded	50%
Flushed	5%

The following question requires your selection of CCC/CCE Scenario 2 (2.3.50.1.2) from the right side of your split screen, using the drop down menu, to reference during your response/choice of responses.

The entire pipe has been received, hangers have been installed, and all pipes are in place. None has been welded or flushed. What percent complete is this project?

- * 45%
- * 50%
- * 95%
- * 30%

NEW QUESTION 30

A major theme park is expanding the existing facility over a five-year period. The design phase will be completed one year after the contract is awarded. Major engineering drawings will be finalized two years after the design contract is awarded and construction will begin three years after the award of the design contract. New, unique ride technology will be used and an estimate will need to be developed to identify these costs that have no historical data.

Which of the following is least likely to improve a large earthmoving contractor's productivity?

- * Using apprentice operators to save labor costs
- * Starting summer work in the early morning hours to minimize work during peak heat periods of the day
- * Remove underground hazards prior to excavation work
- * Replacing old excavators with new, larger excavators

NEW QUESTION 31

An agricultural corporation that paid 53% in income tax wanted to build a grain elevator designed to last twenty-five (25) years at a cost of \$80,000 with no salvage value. Annual income generated would be \$22,500 and annual expenditures were to be \$12,000.

Answer the question using a straight line depreciation and a 10% interest rate.

The following question requires your selection of CCC/CCE Scenario 17 (4.2.50.1.1) from the right side of your split screen, using the drop down menu, to reference during your response/choice of responses.

What is the book value (BV) of the asset at the end of 5 years?

- * \$64,000
- * \$16,000
- * \$3,200
- * \$60,000

NEW QUESTION 32

The latest allowable end time minus the earliest allowable end time on a schedule activity is referred to as:

- * Total float
- * Remaining duration
- * Free float
- * Just-in-time scheduling

NEW QUESTION 33

You have been hired as the cost engineer for a mechanical contractor and have provided the following information:

Total budgeted hours 12,000
The planned project duration in days 130

Rules of credit are as follows:

Pipe received	5%
Hangers installed	10%
Pipe in place	30%
Welded	50%
Flushed	5%

The following question requires your selection of CCC/CCE Scenario 2 (2.3.50.1.2) from the right side of your split screen, using the drop down menu, to reference during your response/choice of responses.

9,375 hours have been expended to date. Planned completion at this time is 75%. The project is determined to be 66% complete.

What is the current cost performance index (CPI)?

- * 0.96
- * 0.84
- * 1.14
- * 0.88

NEW QUESTION 34

An agricultural corporation that paid 53% in income tax wanted to build a grain elevator designed to last twenty-five (25) years at a cost of \$80,000 with no salvage value. Annual income generated would be \$22,500 and annual expenditures were to be \$12,000.

Answer the question using a straight line depreciation and a 10% interest rate.

The following question requires your selection of CCC/CCE Scenario 17 (4.2.50.1.1) from the right side of your split screen, using the drop down menu, to reference during your response/choice of responses.

Depreciation (in the United States) is calculated in accordance with which of the following?

- * Modified Accelerated Cost Recovery System (MACRS)
- * The Federal IRS Reform Act (FIRSRA)
- * Generally Accepted Accounting Practices (GAAP)
- * Accelerated Cost Recovery System (ACRS)

NEW QUESTION 35

A major theme park is expanding the existing facility over a five-year period. The design phase will be completed one year after the contract is awarded. Major engineering drawings will be finalized two years after the design contract is awarded and construction will begin three years after the award of the design contract. New, unique ride technology will be used and an estimate will need to be developed to identify these costs that have no historical data.

A cyclical process model was chosen as the basis for total cost management (TCM) because:

- * It is one of the basic tenets of quality improvement
- * Refinement is needed to prepare the estimate at completion (EAC)
- * Strategic assets and projects have inherent life cycles
- * It facilitates development of budgets and schedules

NEW QUESTION 36

You have been hired as the cost engineer for a mechanical contractor and have provided the following information:

Total budgeted hours 12,000
The planned project duration in days 130

Rules of credit are as follows:

Pipe received	5%
Hangers installed	10%
Pipe in place	30%
Welded	50%
Flushed	5%

The following question requires your selection of CCC/CCE Scenario 2 (2.3.50.1.2) from the right side of your split screen, using the drop down menu, to reference during your response/choice of responses.

9,375 hours have been expended to date. Planned completion at this time is 75%. The project is determined to be 66% complete. Based on current trends, how many hours will be expended at project completion?

- * 16,215
- * 14,201
- * 12,000
- * 10,526

NEW QUESTION 37

Budgeted cost of work scheduled is all of the following except:

- * Total costs incurred in accomplishing work in a given-time period
- * Baseline for performance measurement
- * Sum of the budgets for work scheduled
- * Includes portion of the budget for level-of-effort work

NEW QUESTION 38

You have been hired as the cost engineer for a mechanical contractor and have been provided the following information:

Total budgeted hours 12,000
The planned project duration in days 130

Rules of credit are as follows:

Pipe received	5%
Hangers installed	10%
Pipe in place	30%
Welded	50%
Flushed	5%

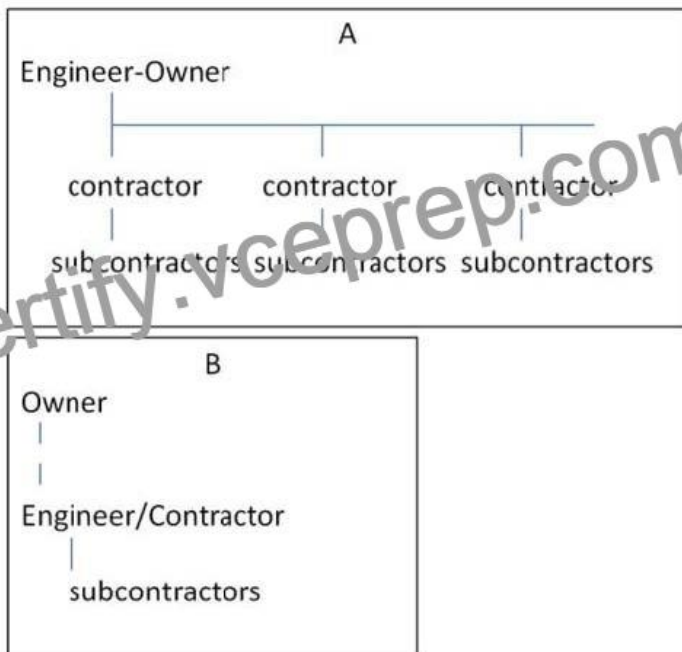
The following question requires your selection of CCC/CCE Scenario 2 (2.3.50.1.2) from the right side of your split screen, using the drop down menu, to reference during your response/choice of responses.

6,573 hours have been expended to date. Planned completion at this time is 60%. The project is determined to be 55% complete. How many hours have been earned?

- * 6,600
- * 6,960
- * 7,200
- * 6,573

NEW QUESTION 39

Given the two organization structures below, answer the question.



The following question requires your selection of CCC/CCE Scenario 28 (3.7.50.1.7) from the right side of your split screen, using the drop down menu, to reference during your response/choice of responses.

A reason for using a Construction Manager type agreement is:

- * To better coordinate contractors
- * Coordinate the owner and engineer as in Type A
- * To better coordinate subcontractors
- * To better coordinate contractors and subcontractors as in Type B

NEW QUESTION 40

Cost performance index (CPI) is defined by AACE International as: (assume no change in budgeted quantities)

- * ACWP/BCWS
- * BCWS/BCWP

- * ACWP/BCWP
- * BCWP/ACWP

NEW QUESTION 41

You have estimated that the present day price for a piece of equipment is \$350,000. The delivery of the equipment is scheduled 30 months from today. The price of the equipment has been separated into the following categories:

Category	Percent
Steel	30
Copper	30
Manufacturing Labor	40

Based on information from forecasting services, the current cost index value and the expected inflation rate for each commodity is as follows:

INFLATION RATE (projected)

Commodity	Current Index	Year 1	Year 2	Year 3	Year 4
Steel	2.40	2.5%	2.5%	3.0%	2.0%
Copper	4.20	1.0%	1.5%	2.0%	2.0%
Manufacturing Labor	6.50	2.5%	3.0%	3.0%	3.5%

The following question requires your selection of CCC/CCE Scenario 6 (2.7.50.1.3) from the right side of your split screen, using the drop down menu, to reference during your response/choice of responses.

Calculate the mean unit cost.

- * \$48.09
- * \$48.22
- * \$48.35
- * \$46.59

NEW QUESTION 42

Money is value. Having money when you need it is very important. Money can also be valuable when used wisely by knowing when to spend and when to conserve. Also, planning now for future expenses can be a plus to the company rather than a debit.

There are several ways to capitalize money and spending. Basically there is the single payment method that has a compound amount factor and a present worth factor. There is the uniform annual series that has a sinking fund factor, capital recovery factor and also the compound amount factor and present worth factor. At this point, we can assure money is worth 10%.

The following question requires your selection of CCC/CCE Scenario 7 (4.8.50.1.1) from the right side of your split screen, using the drop down menu, to reference during your response/choice of responses.

Five years from now it is required the company have \$100,000. How much money should be invested at the end of each year to reach this?

- * \$15,937
- * \$15,397
- * \$16,380
- * \$13,168

NEW QUESTION 43

You are analyzing historic unit costs for 18" Class 5 reinforced concrete pipe in a database. The unit costs include all costs - material, labor, equipment, and other, for the excavation, bedding, pipe and backfill. Refer to the following table:

BID DATE	LOCATION	ESTIMATED QUANTITY	UNIT COST
3/11/03	Cincinnati, OH, USA	147	\$55.00
9/14/05	Easton, WI, USA	143	\$34.50
8/17/06	Louisville, KY, USA	462	\$37.30
8/31/05	Atlanta, GA, USA	530	\$55.00
11/19/04	Atlanta, GA, USA	308	\$40.00
1/26/05	Atlanta, GA, USA	45	\$26.78
2/21/07	Denver, CO, USA	256	\$46.59
4/18/06	Colorado Springs, CO, USA	176	\$75.00
4/18/06	Colorado Springs, CO, USA	80	\$65.00

The following question requires your selection of CCC/CCE Scenario 6 (2.7.50.1.3) from the right side of your split screen, using the drop down menu, to reference during your response/choice of responses.

What is the range of estimated quantities?

- * \$26.78 to \$75.00
- * \$485
- * \$45 to \$530
- * \$48.22

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