

CCEA Sample Questions

Below are two sample questions with associated answers and solutions for sections A through C.

FOUNDATIONAL KNOWLEDGE SAMPLE QUESTION #1

[Cost Estimating Basics] (Work Breakdown Structure)

QUESTION: Which of the following is **NOT** a purpose of the Work Breakdown Structure?

- a. To provide a lower level breakout of small tasks that are easy to identify, staff, schedule, and estimate
- b. To identify the organizational relationships and assign work responsibilities
- c. To reduce the possibility of overlap, duplication, or redundancy of tasks
- d. To provide a basis of comparison for the actual work completed versus the estimate.
- e. To furnish a convenient hierarchical structure for the accumulation of resources estimates

ANSWER: B

SOLUTION: All of the provided responses support the purpose of the WBS except response B.

REFERENCE: Stewart, Rodney. Cost Estimating: Second Edition. New York: John Wiley & Sons, Inc., 1991 , p 35.

FOUNDATIONAL KNOWLEDGE SAMPLE QUESTION #2

[Learning Curve]: (Unit Learning Curve)

QUESTION: The following example uses which type of LC theory to determine cost?

Unit Number (X)	Unit Cost (Y)
1	\$100.00
2	80.00
4	64.00
8	51.20
16	40.96

- a. Wright (Cum Ave)
- b. Crawford (Unit)
- c. Heuristic Lot Midpoint
- d. Andelohr (Production Break)
- e. Straight-line deductions

ANSWER: B

SOLUTION: *By definition*

REFERENCE: *By definition*

PRACTICAL APPLICATION SAMPLE QUESTION #1

[Data Collection and Normalization]: (Reasonableness of Data-Data Quality)

QUESTION: While collecting historical data to perform an estimate for a future aircraft, you discover that the ABC aircraft is similar to the proposed aircraft. You find that the ABC aircraft cost \$2.2 billion (2007\$) to develop, has an average recurring production cost of \$90 million (2007\$), weighs 30,000 lbs, and has a range of 2000 miles and maximum speed of 550 miles per hour. What major category of data is missing from this collection effort?

- a. Cost
- b. Technical
- c. Programmatic
- d. None of the above
- e. All of the above

ANSWER: C

SOLUTION: *Using the various terms addressed in Module 4 of CEBok, programmatic is the best category for the missing data*

REFERENCE: Module 4 of CEBok

ADVANCED ANALYSIS SAMPLE QUESTION #1

[Data Collection and Normalization]: (Data Collection Process)

QUESTION: Which of the following does not have the potential to impact the data collection process?

- a. New technologies
- b. Schedule
- c. Cost Reduction Initiatives
- d. Inflation
- e. Development of a new CER

ANSWER: D

SOLUTION: Inflation doesn't impact the method of collection

REFERENCE: Module 4 of CEBok

ADVANCED ANALYSIS SAMPLE QUESTION #2

[Economic Analysis]: (Real Interest Rate)

QUESTION: Suppose the nominal interest rate is 9.0%. The rate of inflation is 6.0%. The real interest rate is approximately:

- a. 3.0%
- b. 1.5%
- c. -3.0%
- d. 15.0%
- e. Unknown

ANSWER: A

SOLUTION: The real interest rate is approximately the nominal rate of interest minus the rate of inflation.

REFERENCE: (Submitted by Committee)