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Lean Six Sigma Black Belt
APMG International Certified Lean Six Sigma Black Belt - Foundation (Black Belt) Practice Exam

Questions And Answers PDF Format:

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Version = Product

Latest Version: 6.0

Question: 1

If in an experiment all possible variable pairs sum to zero the design is Orthogonal.
Response:

A. True
B. False

Answer: A

Question: 2

The 5S approach utilized by a Belt to separate necessary from unnecessary items and frequently used items from infrequently used items is known as?
Response:

A. Sustaining
B. Sorting
C. Shining
D. Standardizing

Answer: B

Question: 3

Which tool is used to compare more than two sample proportions with each other?
Response:

A. 2 sample T-test
B. Moods Median
C. Mann-Whitney
D. Contingency Tables

Answer: D

Question: 4

A 2 Sample t-test has several assumptions, which of the following is one of those key assumptions?
Response:

A. The variables are independent
B. Data is non-normally distributed
C. The underlying distribution is binomial
D. Variances are unequal

Answer: A

Question: 5

Much of the Six Sigma methodology is used to identify and remove causes for _____.
Please choose the correct answer.
Response:

A. Process Variation
B. Material Costs
C. Excess Inventory
D. Lost Sales

Answer: A

Question: 6

Special Cause Variation falls into which two categories?
Response:

A. Natural & Unnatural
B. Short Term & Long Term
C. Assignable & Pattern
D. Attribute & Discreet

Answer: C

Question: 7

A concept that addresses the consistency of process workers is called _____?
Response:

A. Supervising
B. Visual Factory

C. Standard Operating Procedures
D. Performance Drivers

Answer: C

Question: 8

"A calculated time frame that matches customer demand" is a definition of what Lean Principles term?
Response:

A. Value Stream
B. Kaizen event
C. Takt time
D. Kanban

Answer: C

Question: 9

In a two-level full factorial DOE with four factors, how many runs should there be?
Response:

A. 16
B. 2
C. 8
D. 4

Answer: A

Question: 10

A Belt working in a supply chain environment has to make a decision to change suppliers of critical raw materials for a new product upgrade.
The purchasing manager is depending on the Belt's effort requiring that the average cost of an internal critical raw material component be less than or equal to $4,200 in order to stay within budget.
Using a sample of 35 first article components, a Mean of the new product upgrade price of $4,060, and a Standard Deviation of $98 was estimated.
Select the answer that best states the Practical Problem.
Response:

A. If the average cost per component is $4,200 or less, then the purchase manager will introduce the new product upgrade with new components.

B. If the average cost per component is greater than $4,200, then the purchase manager will introduce the new product upgrade with new components.

C. Only if the average cost per product upgrade is $4,060, will the purchase manager introduce new product upgrades with new components.

D. If the average cost per new product upgrade is less than $180, then the purchase manager will introduce the new product upgrade with new components.

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Answer: A

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