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Lean Six Sigma Master Black Belt

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QUESTION 1

Special Cause Variation falls into which two categories?

A. Natural and Unnatural

B. Short Term and Long Term

C. Assignable and Pattern

D. Attribute and Discreet

Correct Answer: C

QUESTION 2

The method of Steepest Ascent guides you toward a target inside the original inference space.

A. True

B. False

Correct Answer: B

QUESTION 3

A Factorial Experiment based on a Level 2 Design with 6 factors would require 16 runs to fully assess the interactions.

A. True

B. False

Correct Answer: B

QUESTION 4

The Mann-Whitney test is a powerful test and is unique to situations from which of the choices listed? (Note: There are 2 correct answers).

A. Testing the identity of two populations

B. Focuses on equality of the Median of the two populations

C. Less powerful than the traditional "t-test"

D. More widely applicable than the traditional "t-test"

Correct Answer: BD

QUESTION 5

Given repeatability RPT =4 and reproducibility RPD = 3, calculate precision MS

A. MS = 3

B. MS = 7

C. MS = 25

D. MS = 5

Correct Answer: D

QUESTION 6

What is the Ppk of a process with a spread of 24 units, an average of 68, an upper limit of 82 and a lower limit of 54?

A. 1.68

B. 2.00

C. 4.00

D. 4.42

Correct Answer: C

QUESTION 7

The Hardware Store ordered ten lawn mower from the manufacturer and just before shipping the manufacturer found one to have a motor that wouldn\\'t start. For the manufacturer this would be categorized as what type of cost?

A. Internal Failure Costs

B. External Failure Costs

C. Prevention Costs

D. Appraisal Costs

Correct Answer: A

QUESTION 8

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 $3,600 in order to stay within budget. Using a sample of 42 first article components, a Mean of the new product upgrade price of $3,200 and a Standard Deviation of $180 was

estimated. Based on the data provided, the Z value for the data assuming a Normal Distribution is?

A. 1.11

B. 2.22

C. 4.30

D. 5.42

Correct Answer: B

QUESTION 9

Which of these elements are not included in Implementation plans?

A. Work breakdown structure

B. Risk management plans

C. Cost/Benefit ratios

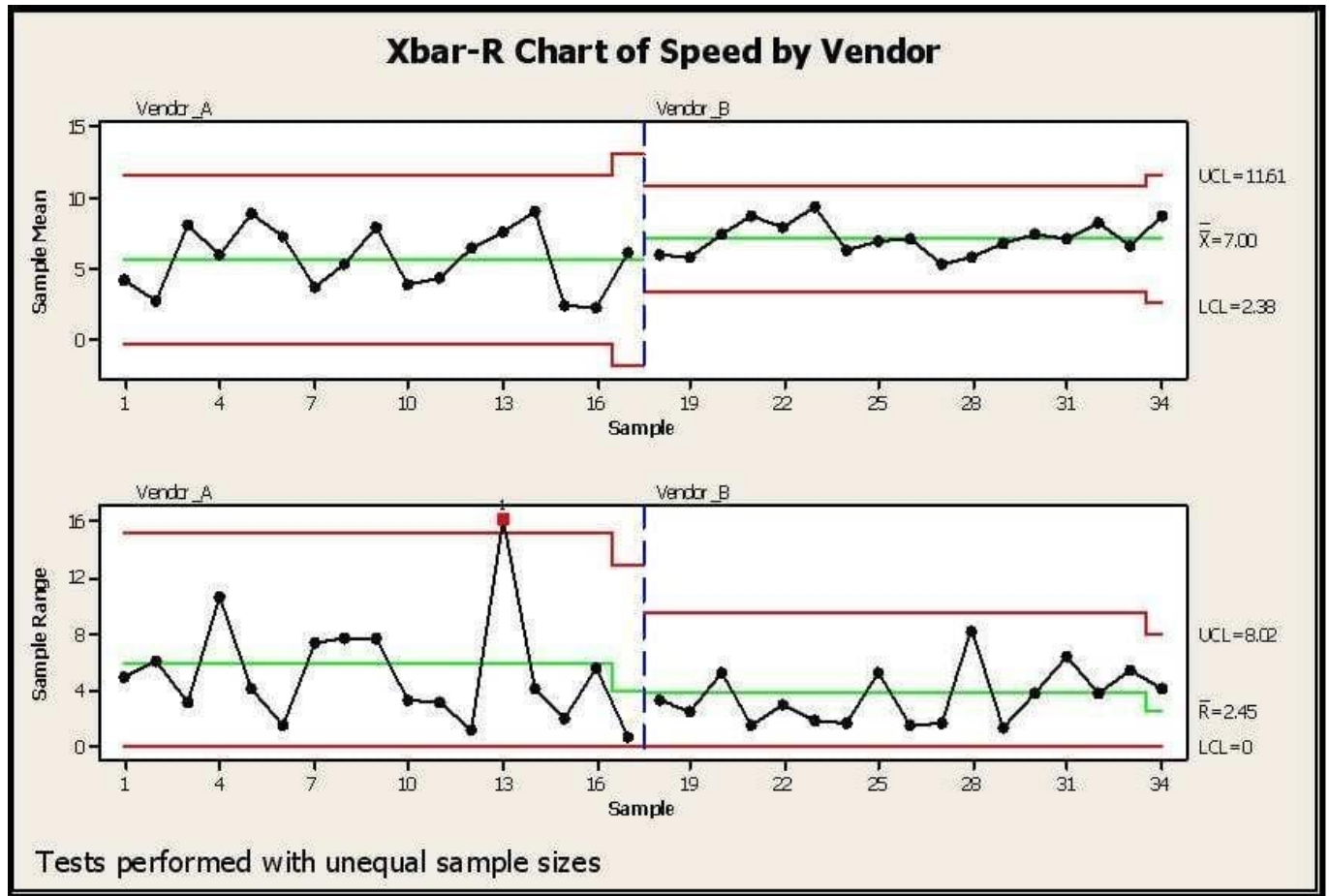D. Planned audits of work completion

Correct Answer: C

QUESTION 10

Using this data calculate the percentage of DPU.

A. 2.74

B. 3.23

C. 4.56

D. 5.93

Correct Answer: B

QUESTION 11

SPC Charts are used extensively in different business and decision-making environments. In this example a vendor is being selected based on speed of delivery. Which of the conclusions would help you pick a vendor for your needs regarding lead-time of delivery from your vendors? (Note: There are 4 correct answers).

Tests performed with unequal sample sizes

A. Vendor A with a much shorter lead time in delivery

B. Vendor B as it has a better consistency (lower variance) on lead time

C. Vendor B since Vendor A shows a situation out of control as shown in red

D. Vendor B since the Control Limits are much narrower than Vendor A

E. Vendor B has higher lead time, but a process with much narrower Control Limits

Correct Answer: BCDE

QUESTION 12

Six Sigma is a business improvement discipline whose fundamental view is based on a _____ oriented approach of the business.

A. Profit

B. Performance

C. Process

D. Predatory

Correct Answer: B

QUESTION 13

How do you check that a regression model is valid?

A. Residuals are normally distributed

B. Residuals are independent

C. Residuals have constant variation

D. All of the above

Correct Answer: D

QUESTION 14

The most important process metrics are often determined by what the customer tells us is important to them. Which of these sequences describes the way customer requirements are converted to the customer-based process metrics?

A. Voice of the customer>critical to quality metrics>critical customer requirements

B. Voice of the customer>critical customer requirements>critical to process metrics

C. Critical customer requirements>critical to quality metrics>critical to process metrics

D. Voice of the customer>critical customer requirements>critical to quality metrics

Correct Answer: D

QUESTION 15

Fractional Factorial, _____and Response Surface Method are types of planned experiments.

A. Multi-Vari Analysis

B. Baldridge Channels

C. One Factor at a Time or OFAT

D. Factorial Design

Correct Answer: D

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