LSSMBB^{Q&As}

Lean Six Sigma Master Black Belt

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QUESTION 1

Common and Special Cause _____ are the focus of Statistical Process Control.

A. Prediction

B. Ideation

C. Capability

D. Variation

Correct Answer: D

QUESTION 2

What action should be taken if the residuals from a regression model show a pattern over time?

A. It is acceptable to use the results as they exist

B. Transform the input variable

C. Transform the output variable

D. Track down the assignable cause of the time trend I pattern

Correct Answer: D

QUESTION 3

In Logistic Regression, an Odds Ratio of 1 means?

A. One group is more likely than the other

B. Both groups are very likely

C. No association between groups - they are equally likely D. There is a significant relationship between groups

Correct Answer: C

QUESTION 4

Determine the process improvement goal which would require the usage of the DMADV methodology.

A. Improve Process Efficiency and Speed

B. Develop New Processes

C. Variation and Defect Reduction

D. Special Cause Elimination

Correct Answer: B

QUESTION 5

Control Charts were developed by Dr. Shewhart to track data over time. To detect Special Cause variation the Control Charts use which of these?

A. Data shift analysis

B. Outlier analysis methods

C. Center Line and Control Limits

D. None of the above

Correct Answer: C

QUESTION 6

Calculate the Rolled Throughput Yield of this process using this data. DatA. unit input: 1450, unit output: 1390, defects repaireD. 320, scrap: 60

A. 71.33%

B. 72.66%

C. 73.79%

D. 77.93%

Correct Answer: B

QUESTION 7

Assessing process proportion as opposed to evaluating a process with respect to a set target can be done using one or more of these. (Note: There are 2 correct answers).

A. Process proportion equals some desired value

B. Process proportion equals some value range

C. Target is current

D. When we deal with Attribute type data

E. Proportion of the tail is equal

Correct Answer: AD

QUESTION 8

The validity of the decision made with Hypothesis Testing is dependent upon all of these except
_____.

A. Beta risk

B. Alpha risk

C. Range of data

D. Sample size

Correct Answer: C

QUESTION 9

A(n) _____ is best used to compare a Machine 1 average quality characteristic to the same quality
characteristic of Machine 2.

A. F test

B. 1-Sample t-test

C. 2-Sample t-test

D. ANOVA test

Correct Answer: C

QUESTION 10

Much of the Six Sigma methodology is used to identify and remove causes for _____ .

A. Process Variation

B. Material Costs

C. Excess Inventory

D. Lost Sales

Correct Answer: A

QUESTION 11

Scatter diagrams are most useful for which of the following?

A. Showing that output factor (Y) is normally distributed

B. Graphically showing the relationship between two variables

C. Determining whether a process is in control

D. Proving root causes of problems

Correct Answer: B

QUESTION 12

A black belt needs to determine if a process is stable. What technique should be used?

A. Capability Chart

B. Pareto Chart

C. Control Chart

D. Histogram

Correct Answer: C

QUESTION 13

Three different operators perform MSA on 10 parts. They measure the same 10 parts twice. What would the Total # of readings be?

A. 30

B. 60

C. 120

D. 10

Correct Answer: B

QUESTION 14

If the production is for higher volume and monitoring and the Mean and variability is to be monitored for four machines producing product and the characteristic to be monitored is Variable Data, which SPC Chart is best to be selected?

A. Xbar-R Chart

B. Individual-MR Chart

C. NP Chart

D. CUSUM Chart

Correct Answer: A

QUESTION 15

With Measurement System Analysis we are concerned with two issues that impact the potential variability of the data. They are _____.

A. Precision and Accuracy

B. Reliability and Repeatability

C. Error and Spread

D. Sensitivity and Deflection

Correct Answer: A

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