LSSMBB Q&As

Lean Six Sigma Master Black Belt

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QUESTION 1

When evaluating residuals from a regression model, a Black Belt discovers that she has outliers in the data. What is best course of action for the outliers?

A. Ignore them. They should not impact the model.

B. Omit them.

C. Explore the source of the outlier.

D. Transform the independent variable and re-fit the model.

Correct Answer: C

QUESTION 2

Which of the following are true regarding the Central Limit Theorem?

A. Sample averages are normally distributed as sample size gets larger.

B. Sample averages converge on the population mean.

C. Sample standard deviations are dependent upon the standard deviation of the population from which it was sampled.

D. All of the above

Correct Answer: D

QUESTION 3

Which statement(s) are incorrect about Fractional Factorial Designs?

A. A Half Fractional Design for 5 factors has the same number of experimental runs as a Full Factorial Design for 4 factors assuming no repeats or replicates or Center Points

B. Quarter Fractional experiments can exist for those with 4 factors

C. Resolution V design is desired while controlling costs of experimentation

D. Half Fractional experiments do not exist for those designs with only 2 factors

Correct Answer: C

QUESTION 4

One of the foundations of Lean Six Sigma is the concept that the output of a process (Y) is influenced by the process inputs (X\\'s) and is commonly shown as which formula?

A. Y = Z(X2)

B. Y = f(X3)

C. Y = f(Xn)

D. Y = g(X+ 1.5)

Correct Answer: C

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