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

Fractional Factorial Designs are used to analyze factors to model the output as a function of inputs if Hypothesis Testing in the Analyze Phase was inadequate to sufficiently narrow the factors that significantly impact the output(s).

A. True

B. False

Correct Answer: A

QUESTION 3

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 4

When we compare short-term and long-term Capability which of these is true?

A. Cp is better for the short term
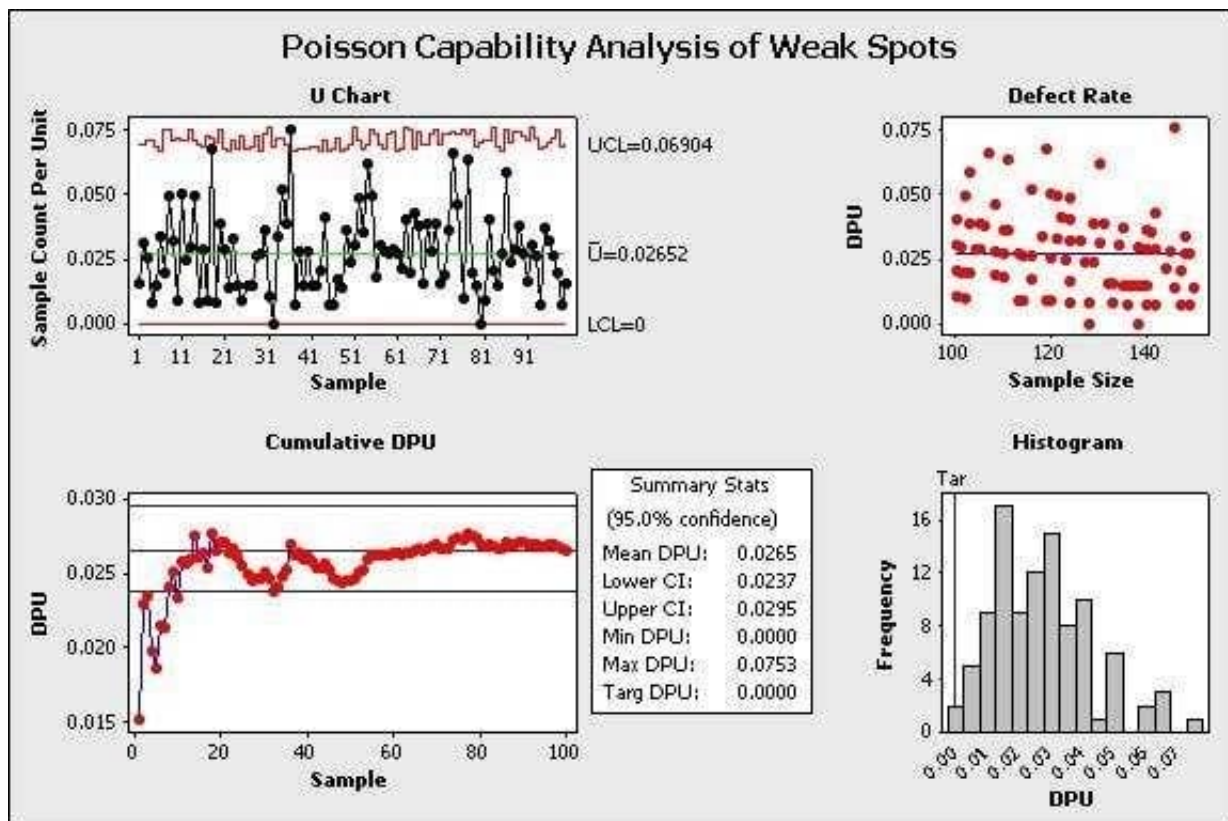
B. Both short-term and long-term performance are alike

C. Performance tends to improve over time

D. Cp is better for the long-term

Correct Answer: A

QUESTION 5

Which statements are correct about the advanced Capability Analysis shown here? (Note: There are 3 correct answers).

Poisson Capability Analysis of Weak Spots

A. This is a Poisson Capability Analysis

B. The average DPU with 95% confidence is between 0.024 and 0.0295

C. The DPU does not seem to vary depending on sample size

D. The process shows only one instance of being out of control statistically so we have confidence in the estimated DPU of this process

E. The maximum DPU in one observation was nearly 0.0753

Correct Answer: BCE