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Six Sigma Green Belt

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QUESTION NO: 1

Examples of a Visual Factory include which of these? (Note: There are 2 correct answers).

A. White outlines on floor for proper inventory placement

B. Documented procedures with a numerical outline

C. Bad/Good indications of gauge readings with red and green outlines

D. Implementing a defect inspection device

ANSWER: A C

QUESTION NO: 2

Select all the statements that are true after reviewing the Capability Analysis shown here. (Note: There are 4 correct answers).

A. The process is out of Control.

B. The process is properly assumed to be a Normal process.

C. The Mean of the process moving range is 1.78.

D. This Capability Analysis used subgroups.

E. Majority of the dimensional values are outside of the tolerance than within.

ANSWER: B C D E

QUESTION NO: 3

Hypothesis Tests determine the probabilities of differences between observed data and the hypothesis being solely due to chance. This is determined based on the result of the _____.

A. Random acts

B. P-values

C. Standard Deviations

D. R-values

ANSWER: B

QUESTION NO: 4

Significant variation in process performance is a consequence of several causes that can be classified using which of the terminologies shown. (Note: There are 2 correct answers).

A. Common

B. Random

C. Uneducated

D. Special

E. Vital

ANSWER: A D

QUESTION NO: 5

The Central Limit Theorem helps us understand the _____ we are taking and is the basis for using sampling to estimate population parameters.

A. Analysis

B. Kurtosis

C. Risk

D. Route

ANSWER: C

QUESTION NO: 6

Measurement System Analysis is a procedure used to quantify all _____ in the method or system used for taking measurements.

A. Totals

B. People involved

C. Variation

D. Summations

ANSWER: C

QUESTION NO: 7

Multiple Linear Regressions (MLR) is best used when which of these are applicable? (Note: There are 3 correct answers).

A. Non-linear relationships between the inputs X's and output Y

B. Uncertainty in the slope of the linear relationship between an X and a Y

C. Relationships between Y (output) and more than one X (Input)

D. Preventing the use of a Designed Experiment if unnecessary

E. We assume that the X's are independent of each other

ANSWER: C D E

QUESTION NO: 8

Which statement(s) are correct for the Regression Analysis shown here? (Note: There are 2 correct answers).

A. This Regression is an example of a Multiple Linear Regression.

B. This Regression is an example of Cubic Regression.

C. %Cu explains the majority of the process variance in heat flux.

D. Thickness explains over 80% of the process variance in heat flux.

E. The number of Residuals in this Regression Analysis is 26.

ANSWER: A D

QUESTION NO: 9

Long-term Data represents all the variation that one can expect within the subject process.

A. True

B. False

ANSWER: A

QUESTION NO: 10

Those who are trained to the skill levels of a Black Belt are typically utilized to apply Lean Six Sigma methodologies what percentage of their time?

A. 25%

B. 50%

C. 75%

D. 100%

ANSWER: D