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QUESTION 1

The Lean toolbox includes all of these items except _____.

A. Mistake Proofing

B. Visual Factory

C. Design of Experiments

D. Inventory Management

Correct Answer: C

QUESTION 2

Data that can be measured on a continuum and has meaningful decimal subdivisions are _____ data.

A. Continuous

B. Surplus

C. Discrete

D. Variable

Correct Answer: A

QUESTION 3

To be an effective Lean Six Sigma practitioner one must understand the difference between _____.

A. ANOVA and the Analysis of Variance

B. Nonparametric tests and tests of Non-normal Data

C. F-test and test of variances of 2 samples

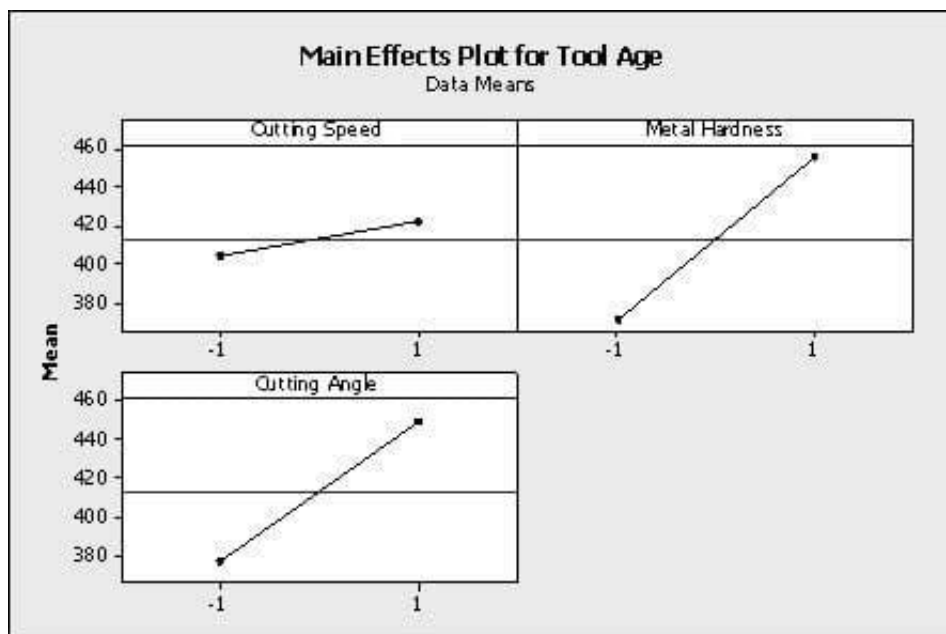D. Practical and Statistical significance

Correct Answer: D

QUESTION 4

Screening experiments are the proper choice when a Belt is faced with the situation of highly Fractional Factorial Designs.

A. True

B. False

Correct Answer: A

QUESTION 5

Which statement(s) are correct about the DOE Factorial plot output here? (Note: There are 3 correct answers).

A. Two factors were operated at 3 levels each

B. The highest tool age was achieved with metal hardness at high level while keeping the cutting speed at the low level

C. The design indicated above is a 32 factorial design

D. The cutting speed and cutting angle are at the low level for the least tool age achieved

E. All factors had 2 levels in the experiment

Correct Answer: BCE

QUESTION 6

When a Belt properly analyzes the results of an experiment he must examine the Residuals in expectation of finding all

of the following except _____.

A. Some Residuals higher than others

B. Residuals will represent a Linear Regression

C. All Residuals within 2 Standard Deviations of the Mean

D. Some Residuals lower than others

Correct Answer: B

QUESTION 7

A Non-parametric Test should be used if just one distribution is not Normal out of the two or more gathered.

A. True

B. False

Correct Answer: A

QUESTION 8

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 9

One of the primary deliverables from performing a SIPOC is to begin to understand which outputs have the greatest affect on the customer most valued inputs.

A. True

B. False

Correct Answer: B

QUESTION 10

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

A. 1-Sample t-test

B. 2-Sample t-test

C. F test

D. ANOVA test

Correct Answer: B

QUESTION 11

Which Experimental Design typically is most associated with the fewest number of input variables or factors in the design?

A. Response Surface design

B. Full Factorial design

C. Simple Linear Regression

D. Fractional Factorial design

Correct Answer: A

QUESTION 12

A natural logarithmic base is not required for which of these distributions for probability calculations?

A. Weibull

B. Normal

C. Poisson

D. Binomial

Correct Answer: D

QUESTION 13

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 14

The distance between the Mean of a data set and the Point of Inflection on a Normal curve is called the _____.

A. Curve Spread

B. Standard Deviation

C. Numerical Average

D. Data Breadth

Correct Answer: B

QUESTION 15

Screening experiments are the proper choice when a Belt is faced with the situation of highly Fractional Factorial Designs.

A. True

B. False

Correct Answer: A

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