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Lean Six Sigma Master Black Belt

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QUESTION 1

Six Sigma is a business improvement discipline whose fundamental view is based on a _____ oriented approach of the business.

A. Profit

B. Performance

C. Process

D. Predatory

Correct Answer: B

QUESTION 2

A Belt working in a supply chain environment has to make a decision to change suppliers of critical raw materials for a new product upgrade. The purchasing manager is depending on the Belt\'s effort requiring that the average cost of an internal critical raw material component be less than or equal to $4,200 in order to stay within budget. Using a sample of 35 first article components, a Mean of the new product upgrade price of $4,060, and a Standard Deviation of $98 was estimated. Select the answer that best states the Practical Problem.

A. If the average cost per component is $4,200 or less, then the purchase manager will introduce the new product upgrade with new components.

B. If the average cost per component is greater than $4,200, then the purchase manager will introduce the new product upgrade with new components.

C. Only if the average cost per product upgrade is $4,060, will the purchase manager introduce new product upgrades with new components.

D. If the average cost per new product upgrade is less than $180, then the purchase manager will introduce the new product upgrade with new components.

Correct Answer: C

QUESTION 3

When variation is removed from the output of a process then the process customer can have more confidence in the experience that results from the process.

A. True

B. False

Correct Answer: A

QUESTION 4

For a Kanban to be successful which of these must occur?

A. Consistent cycle times

B. Fairly stable process demand of product or service

C. Low defect rate of incoming product or service

D. All of the above

Correct Answer: D

QUESTION 5

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 6

The Greek letter "sigma" is used by mathematicians to signify _____.

A. Curve Width

B. Numerical Average

C. Standard Deviation

D. Data Spread

Correct Answer: C

QUESTION 7

When a Belt creates a Process Map she will use a _____ to depict a decision point requiring a Yes or No decision.

A. Circle

B. Square

C. Diamond

D. Rectangle

Correct Answer: C

QUESTION 8

You have been asked to monitor daily production yields to determine if the process yield is in statistical control. Select the control chart best suited for this purpose.

A. C-chart

B. U-chart

C. X and R chart

D. P-chart

Correct Answer: D

QUESTION 9

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 10

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 11

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 12

The method of Steepest Ascent guides you toward a target inside the original inference space.

A. True

B. False

Correct Answer: B

QUESTION 13

"A calculated time frame that matches customer demand" is a definition of what Lean Principles term?

A. Value Stream

B. Kaizen event

C. Takt time

D. Kanban

Correct Answer: C

QUESTION 14

A Belt working in a supply chain environment has to make a decision to change suppliers of critical raw materials for a new product upgrade. The purchasing manager is depending on the Belt\\'s effort requiring that the average cost of an internal critical raw material component be less than or equal to $3,800 in order to stay within budget. Using a sample of 38 first article components, a Mean of the new product upgrade price of $3,680, and a Standard Deviation of $120 was estimated. In order to increase the Long Term Z value to 5, what is the maximum long term variation in pricing the Belt can accept for his upgraded critical raw material component?

A. $6

B. $12

C. $24

D. $48

Correct Answer: C

QUESTION 15

For a multiple regression model, the R2 is the parameter that:

A. Represents the fraction of total variation explained by the model

B. Explains the strength of only one of the inputs in the model

C. Explains if the input factor causes the output response

D. Quantifies the slope of the line in the model

Correct Answer: A

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