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QUESTION 1

One of the metrics commonly used in Lean Six Sigma is DPU. This acronym stands for _____.

- A. Date per usage
- B. Deferred planned usage
- C. Decreased production utilization
- D. Defects per unit

Correct Answer: D

QUESTION 2

An ANOVA used across many dependent variables could increase the Beta risk.

- A. True
- B. False

Correct Answer: B

QUESTION 3

When a process has proven itself to function at a Six Sigma level this means there are less than _____ defects per million opportunities.

- A. 0.4
- B. 3.2
- C. 3.4
- D. 3.7

Correct Answer: C

QUESTION 4

When the design for assembly is being evaluated, all of the following factors should be considered EXCEPT design for:

- A. manufacturability
- B. cost
- C. simplicity

D. cycle time

Correct Answer: D

QUESTION 5

The _____ is the most frequently occurring value in a distribution of data.

A. Median

B. Mean

C. Center Point

D. Mode

Correct Answer: D

QUESTION 6

When analyzing the behavior of our process to assess customer satisfaction we are concerned about both the variation such that it stays within the spec limits and how well the Mean is _____ the process requirements.

A. Balanced against

B. Over and above

C. Twice as great as

D. Centered relative to

Correct Answer: D

QUESTION 7

When a Belt implements an improvement that is automated thus requiring no particular understanding for use he has applied which Lean tool?

A. Mistake Proofing

B. Kaizen Event

C. 5S

D. None of the above

Correct Answer: A

QUESTION 8

The Control Limits width varies if the sample size varies for which type of chart?

- A. P Charts
- B. NP Charts
- C. Xbar-R Charts
- D. Time Series Charts

Correct Answer: A

QUESTION 9

Use this data to calculate the Z Score. Average of: 92, Standard Deviation: 2, Upper Spec Limit: 101

- A. 0.75
- B. 1.5
- C. 2.25
- D. 4.50

Correct Answer: D

QUESTION 10

A team wants to make a schedule for a project showing which tasks must be done sequentially and which may be done simultaneously. Which tool is most appropriate?

- A. matrix diagram
- B. cause and effect diagram
- C. process decision program chart
- D. affinity diagram
- E. activity network diagram
- F. tree diagram
- G. prioritization matrix
- H. matrix diagram
- I. interrelationship digraph

Correct Answer: E

QUESTION 11

A meeting is called for all three shifts to determine the settings to be used on machine #45. This is an example of:

- A. visual factory
- B. kanban
- C. poka-yoke
- D. standard work
- E. set up time reduction (SMED)

Correct Answer: D

QUESTION 12

The term used to describe the risk of a Type I error in a test of hypotheses is?

- A. power
- B. confidence level
- C. level of significance
- D. beta risk

Correct Answer: C

QUESTION 13

Find Cp

- A. 2.00
- B. 0.56
- C. 1.33
- D. 0.44

Correct Answer: B

QUESTION 14

What conclusion is most correct about the Experimental Design shown here with the response in the far right column?

Adv	Bev	Des	Crux	Response
-1	-1	-1	-1	20
1	-1	-1	1	14
-1	1	-1	1	17
1	1	-1	-1	10
-1	-1	1	1	19
1	-1	1	-1	13
-1	1	1	-1	14
1	1	1	1	10

- A. No factor has enough statistical confidence greater than 95% to have an impact on the response rate
- B. Constant, Adv and Bev are the only factors statistically affecting the response rate with 95% confidence or more
- C. If the Adv is increased from the low level to the high level, the response rate increases
- D. The response level is statistically concluded to only need the Adv and Bev factors set at the low level to get the largest response rate
- E. This design does not have enough experimental runs to conclude anything as evidenced by the lack of P-values in the MINITABTM output

Correct Answer: D

QUESTION 15

Contingency Tables are used to test for association, or dependency, between two or more classifications.

- A. True
- B. False

Correct Answer: A

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