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QUESTION 1

The reported Cpk for a process with an average of 94 units, a spread of 22 units and upper and lower specification limits of 125 and 80 units would be?

A. 0.64

B. 1.27

C. 1.84

D. 2.12

Correct Answer: B

QUESTION 2

A periodic time frame can be used to arrange for Control Limit and Center Line calculations with good SPC implementation in a process.

A. True

B. False

Correct Answer: A

QUESTION 3

Which of these is Discrete data?

A. Train arrived at 4:17 pm.

B. Race car consumed 23 gallons of fuel.

C. Of the 42 people on the bus, 12 went into the station.

D. It took 3 hours and 32 minutes to complete the marathon.

Correct Answer: C

QUESTION 4

As part of a Visual Factory plan _____ cards are created and utilized to identify areas in need of cleaning and organization.

A. Kanban

B. Kaizen

C. Poke-Yoke

D. WhoSai

Correct Answer: A

QUESTION 5

The data on SPC charts are typically constructed such that they have the most recent data point on the right hand side.

A. True

B. False

Correct Answer: A

QUESTION 6

The Regression Model for an observed value of Y contains the term which represents the Y axis intercept when X = 0.

A. True

B. False

Correct Answer: A

QUESTION 7

The deviation of the measured value from the actual value is known as _____.

A. Bias

B. Linearity

C. Repeatability

D. Movement

Correct Answer: A

QUESTION 8

Lean Enterprise is based on the premise that anywhere work is being done which of these is also occurring?

A. Money is being spent

B. Waste is being generated

C. People are producing value added product

D. Waste is being eliminated

Correct Answer: B

QUESTION 9

According to a manager it takes an average weekday commute of 39 minutes with a Standard Deviation of 7 minutes for the employees to get to work while they use their personal vehicles for their office commute while the management set a policy of not more than 40 minutes for their daily one-way commute. A survey conducted one day on 70 employees showed an average of 34 minutes commuting time using the metro public transportation system with a Standard Deviation of 21 minutes. If the Standard Deviation is uncontrollable then the other option to increase the probability of coming in on time via personal vehicles to work could be _____?

A. Increase the average time of commute

B. Maintain the average time of commute and change route to work

C. Reduce average commute time to work by departing earlier

D. Change policy at work and request for flexible times based on location

Correct Answer: C

QUESTION 10

Hypothesis Tests determine the probabilities of differences between observed data and the hypothesis being solely due to _____ based on the result of the P-values.

A. Human error

B. Measurement error

C. Shift differences

D. Chance

Correct Answer: D

QUESTION 11

For the data shown here a Belt suspects the three grades are supplying the same results.

Grade A	Grade B	Grade C
0.917	1.1	0.63
0.68	0.173	4.17
1.74	0.24	0.6
0.3	0.67	0.84
0.33	6.94	0.22
4.13		

Which statement(s) are true for proper Hypothesis Testing?

A. The most appropriate Central Tendency to test is the Means

B. An appropriate test to test Central Tendency is the Levene\\'s test

C. An appropriate test to test Central Tendency is the ANOVA test

D. An appropriate test to test Central Tendency is the Mood\\'s Median test

Correct Answer: D

QUESTION 12

The generation of a Regression Equation is justified when we _____. (Note: There are 4 correct answers).

A. Expect the relationship to be Linear between the output and inputs

B. Know that there is a non-linear relationship between output and input(s)

C. Need to understand how to control a process output by controlling the input(s)

D. Experience several process defects and have no other way to fix hem

E. When it is very expensive or too late to measure the output

Correct Answer: ACDE

QUESTION 13

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

Correct Answer: AD

QUESTION 14

The acronym for the defined approach taken by Lean Six Sigma to solve significant challenges related to a process is which of these?

A. DOE

B. DMAIC

C. SIPOC

D. FMEA

Correct Answer: B

QUESTION 15

Typically a person who is trained to the skill level of a Black Belt is nearly 80% dedicated to applying Lean Six Sigma methodologies towards process solutions.

A. True

B. False

Correct Answer: B

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