

GAQM

Exam Questions CLSSGB

Certified Lean Six Sigma Green Belt (CLSSGB)



NEW QUESTION 1

A primary benefit of using a Multi-Vari Chart is it provides a visual presentation of two-way interactions.

- A. True
- B. False

Answer: A

NEW QUESTION 2

It is a Type I error if we reject the Null Hypothesis when it is actually true.

- A. True
- B. False

Answer: A

NEW QUESTION 3

The proper functioning of a Visual Factory is dependent upon which of these?

- A. Technically skilled workers
- B. Work space with active 5S
- C. Availability of visual tools
- D. Breakthrough projects

Answer: C

NEW QUESTION 4

A 1-Sample t-test is used when you want to compare the Median of one distribution to a target value.

- A. True
- B. False

Answer: B

NEW QUESTION 5

The Six Sigma methodology had its origins at _____ in the late 1980's when William Smith coined the name for quality related work being done there.

- A. Motorola
- B. Allied Signal
- C. General Electric
- D. Honeywell

Answer: A

NEW QUESTION 6

In the late 1980's William Smith coined the name Six Sigma for a methodology that had its origins at _____ for quality related work being done there.

- A. Honeywell
- B. Allied Signal
- C. General Electric
- D. Motorola

Answer: D

NEW QUESTION 7

A Stable process is a process whose output is consistent over time. A primary tool used to analyze Stability would be a _____.

- A. Data Forward Plot
- B. Bag Plot
- C. Min/Max Plot
- D. Time Series Plot

Answer: D

NEW QUESTION 8

Which statement(s) are true about the Fitted Line Plot shown here? (Note: There are 2 correct answers).

- A. When Reactant increases, the Energy Consumed increases.
- B. The slope of the equation is a positive 130.5.
- C. The predicted output Y is close to -18 when the Reactant level is set to 6.
- D. Over 85 % of the variation of the Energy Consumed is explained by the Reactant via this Linear Regression.

Answer: CD

NEW QUESTION 9

Fractional Factorial designs for an experimental approach are used when _____ about the multiple metric interaction in a process.

- A. Much is known
- B. Little is known
- C. We don't care
- D. Data exists

Answer: B

NEW QUESTION 10

The purpose of a Process Map is to identify the complexity of the process and to assist in identifying critical steps in the process.

- A. True
- B. False

Answer: A

NEW QUESTION 10

Hypothesis Testing can save time and help avoid high costs of experimental efforts by using existing data.

- A. True
- B. False

Answer: A

NEW QUESTION 15

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: AD

NEW QUESTION 16

The FMEA is used to analyze potential source of defects in the process of interest and stands for _____.

- A. Failure Measure for Effective Automation
- B. Failure Modes and Effect Analysis
- C. Focused Mental Efforts Analyze
- D. Failed Manufacturing Efforts Analyzed

Answer: B

NEW QUESTION 17

With the use of Statistics we define the population to be a large enough sample set of data such that you can analyze it and draw conclusions as to all of the data.

- A. True
- B. False

Answer: B

NEW QUESTION 19

When looking at a distribution graph, the Mean is defined as the _____.

- A. Average based on the sample size
- B. Aggression measured
- C. Total sample size
- D. Measurement based off a quarter of the sample size

Answer: A

NEW QUESTION 23

The Z score is a measure of the distance in Standard Deviations of a sample data point from the Median of the sample population.

- A. True
- B. False

Answer: B

NEW QUESTION 26

If a process has Outliers which pair of charts is most preferable if subgroups will exist for the Continuous Data?

- A. Individual-Moving Range
- B. Xbar-R Charts
- C. Xbar-S Charts
- D. nP and P Charts

Answer: B

NEW QUESTION 30

_____ Distributions occur when data comes from several sources that are supposed to be the same yet are not.

- A. Skewed
- B. Bimodal
- C. Gaussian
- D. Tri-peaked

Answer: A

NEW QUESTION 32

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.

Answer: C

NEW QUESTION 35

Conducting a viable Capability Analysis using Attribute Data one must obtain a fairly large sample set to be statistically sound.

- A. True
- B. False

Answer: A

NEW QUESTION 39

The purpose of a Process Map is to identify the complexity of the process and to record all actions and decision points in the process.

- A. True
- B. False

Answer: A

NEW QUESTION 41

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

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

Answer: B

NEW QUESTION 43

When a Belt applies the practice of Poka-Yoke to a project challenge she is attempting to make certain the activity is _____.

- A. Well documented
- B. Removed from the line
- C. Mistake proofed
- D. Highly visible

Answer: C

NEW QUESTION 45

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

Answer: D

NEW QUESTION 46

Which of these statements describe an undesirable situation when implementing SPC? (Note: There are 2 correct answers).

- A. The lower Control Limit for the R chart is equal to zero
- B. The Control Limits are wider than the customer specification limits
- C. A process is in Statistical Control before implementation of SPC
- D. Attempt to use SPC for tracking transaction times at a warehouse
- E. Indication of the specification limits on the Control Chart

Answer: BE

NEW QUESTION 50

Non-parametric testing is done when which of these are applicable? (Note: There are 3 correct answers).

- A. When the traditional t tests don't produce the results we need
- B. A Hypothesis Test for the Median of the population is in question
- C. It does not require data to come from Normally Distributed populations
- D. They look at the Median rather than the Mean of populations
- E. When there are no parameters to measure in the process

Answer: BCD

NEW QUESTION 51

Cost of Poor Quality (COPQ) can be classified as Tangible (Visible) Costs and Hidden Costs.

- A. True
- B. False

Answer: A

NEW QUESTION 54

Voice of the Customer is a Lean Six Sigma technique to determine _____ attributes of a product or service.

- A. At least 6
- B. The profitable
- C. Critical-to-Quality
- D. The majority of the

Answer: C

NEW QUESTION 55

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 when they use their personal vehicles for their office commute while 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. For the employees choosing to increase their chances to come on time using personal transportation their variation should be reduced to _____?

- A. 1 minute
- B. 6 minutes
- C. 3.5 minutes
- D. Eliminate it to 0.0 minutes

Answer: C

NEW QUESTION 56

According to the definition of Rolled Throughput Yield which of these items best describe the purpose of RTY?

- A. A function of $Y=f(x)$
- B. Accounts for losses due to rework and scrap
- C. Isolates the increase throughput
- D. Determines incremental Growth

Answer: B

NEW QUESTION 60

The Mann-Whitney Test is used to test if the Means for two samples are different.

- A. True
- B. False

Answer: B

NEW QUESTION 63

Skewed, or Mixed, Distributions occur when data comes from several sources that are supposed to be the same yet are not.

- A. True
- B. False

Answer: A

NEW QUESTION 66

A process can be defined as a repetitive and systematic series of steps or activities where inputs are modified or assembled to achieve a _____ result.

- A. Revenue total
- B. Month end
- C. Customer desired
- D. Budgeted

Answer: C

NEW QUESTION 67

Lean had its origins in the development and practice of the _____ Production System.

- A. Honda
- B. Toyota
- C. Ford
- D. Motorola

Answer: B

NEW QUESTION 68

Voice of the Customer is a Lean Six Sigma technique to determine _____ attributes of a product or service.

- A. At least 6
- B. The profitable
- C. Critical-to-Quality
- D. The majority of the

Answer: C

NEW QUESTION 72

The 5 Why Analysis is only useful if the possible independent variable can be broken down into five possible causes.

- A. True
- B. False

Answer: B

NEW QUESTION 76

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

NEW QUESTION 79

To draw inferences about a sample population being studied by modeling patterns of data in a way that accounts for randomness and uncertainty in the observations is known as_____.

- A. Influential Analysis
- B. Inferential Statistics
- C. Physical Modeling
- D. Sequential Inference

Answer: B

NEW QUESTION 81

Non-parametric testing is done when which of these are applicable? (Note: There are 3 correct answers).

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- C. It does not require data to come from Normally Distributed populations
- D. They look at the Median rather than the Mean of populations
- E. When there are no parameters to measure in the process

Answer: BCD

NEW QUESTION 83

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- C. Xbar-S Charts
- D. nP and P Charts

Answer: B

NEW QUESTION 85

The ability to repeat the same measurement obtained with one measurement instrument used several times by one appraiser while measuring the identical characteristic on the same part is known as _____.

- A. Repeatability
- B. Bias
- C. Linearity
- D. Reproducibility

Answer: A

NEW QUESTION 86

Lean had its origins in the development and practice of the _____ Production System.

- A. Honda
- B. Toyota
- C. Ford
- D. Motorola

Answer: B

NEW QUESTION 88

If a Histogram displays two peaks the distribution would likely be _____.

- A. Transformed
- B. Multi-skewed
- C. Bimodal
- D. Bi-attribute

Answer: C

NEW QUESTION 93

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

Answer: A

NEW QUESTION 94

The Accuracy of a Measurement System addresses _____.

- A. Stability, Bias & Linearity
- B. Repeatability & Reproducibility
- C. Stability & Sensitivity
- D. Precision & Sensitivity

Answer: A

NEW QUESTION 99

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