

GAQM

Exam Questions CLSSGB

Certified Lean Six Sigma Green Belt (CLSSGB)



NEW QUESTION 1

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 2

The Accuracy of a Measurement System addresses _____.

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

Answer: A

NEW QUESTION 3

The Regression Model for an observed value of Y contains the term β_0 which represents the Y axis intercept when $X = 0$.

- A. True
- B. False

Answer: A

NEW QUESTION 4

Customers make a purchase decision based on a number of factors. In Lean Six Sigma we refer to these decision points as CTQ's which stands for _____.

- A. Cost of the quantity
- B. Conscious thought qualities
- C. Conspicuous time quandaries
- D. Critical-to-quality

Answer: D

NEW QUESTION 5

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 6

Measurement System Analysis is a procedure used to quantify all _____ in the method or system used for taking measurements.

- A. Totals
- B. People involved
- C. Variation
- D. Summations

Answer: C

NEW QUESTION 7

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 8

The very best way to begin an effort to map a process is to do which of these?

- A. Interview the process owner
- B. Interview the manager of the department
- C. Walk the actual process from beginning to end
- D. Take pictures of the factory floor at each shift

Answer: C

NEW QUESTION 9

This output is what type of advanced Capability Analysis?

- A. Continuous
- B. Binomial
- C. Poisson
- D. Discreet
- E. DPU

Answer: B

NEW QUESTION 10

When analyzing a data set we frequently graph one metric as a function of another. If the slope of the Correlation line is -2.5 we would say the two metrics are _____ correlated?

- A. Positively
- B. Not
- C. Negatively
- D. None

Answer: C

NEW QUESTION 10

Which of the following is used to test the significance for the analysis of a Variance Table?

- A. t Test
- B. F Test
- C. Chi Square Test
- D. Acid Test

Answer: B

NEW QUESTION 12

The Alpha level of a test (level of significance) represents the yardstick against which P-values are measured and the Null Hypothesis is rejected if the P-value is which of these?

- A. Less than the Alpha level.
- B. Greater than the Alpha level.
- C. Greater than the Beta and Alpha level.
- D. Less than one minus Alpha.
- E. Less than the power of one minus Beta.

Answer: A

NEW QUESTION 14

The actual experimental response data varied somewhat from what a Belt had predicted them to be. This is the result of which of these?

- A. Inefficiency of estimates
- B. Residuals
- C. Confounded data
- D. Gap Analysis

Answer: B

NEW QUESTION 17

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 22

Lean focuses on the sequence of activities and work required to produce a product or a service. This flow is called a _____.

- A. Value-add Flow
- B. Production Map
- C. Value Stream
- D. Operating Procedure

Answer: C

NEW QUESTION 23

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

- A. A function of $Y=f(x)$
- B. Determines incremental Growth
- C. Isolates the increase throughput
- D. Accounts for rejects and reworks

Answer: D

NEW QUESTION 28

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 33

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 37

Having an Alpha of .05 and a Beta of .10 are the most common risk levels when running a Statistical test.

- A. True
- B. False

Answer: A

NEW QUESTION 41

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

- A. True
- B. False

Answer: A

NEW QUESTION 45

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 49

The X-Y Diagram is a tool used to identify/collate potential X's and assess their relative impact on multiple Y's.

- A. True
- B. False

Answer: A

NEW QUESTION 51

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

Answer: B

NEW QUESTION 55

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 56

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

- A. True
- B. False

Answer: A

NEW QUESTION 60

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

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

Answer: A

NEW QUESTION 61

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 63

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 64

The practice of utilizing Poka-Yoke is also known as _____.

- A. Thorough integration
- B. Mistake proofing
- C. On site inspection
- D. Lean controls

Answer: B

NEW QUESTION 69

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 72

Standardized work instructions apply to which resource in the process of interest?

- A. People
- B. Machines
- C. Supervision
- D. Engineering

Answer: A

NEW QUESTION 75

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

Answer: A

NEW QUESTION 80

The 80:20 rule is associated with which of these tools?

- A. Pareto Chart
- B. Simon's Cross-Functional Tool
- C. SIPOC
- D. Framing Tool

Answer: A

NEW QUESTION 84

The term FMEA is an abbreviation for Failures Measure Effective Automation.

- A. True
- B. False

Answer: B

NEW QUESTION 88

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

- A. True
- B. False

Answer: B

NEW QUESTION 93

The X-Y Diagram is a tool used to identify/collate potential X's and assess their relative impact on multiple Y's.

- A. True
- B. False

Answer: A

NEW QUESTION 97

While management of a company must set the stage for all improvement efforts, which of these 5S's is primarily driven by management?

- A. Straighten
- B. Sort
- C. Shine
- D. Sustain

Answer: D

NEW QUESTION 98

Process Capability is a function of which of these?

- A. Customer requirements
- B. Process performance
- C. Output over time
- D. All of these answers are correct

Answer: D

NEW QUESTION 99

Use of the _____ approach is the most classic arrangement when constructing a Fishbone Diagram.

- A. Chronological
- B. 6M
- C. 5M
- D. Alphabetical

Answer: B

NEW QUESTION 100

While management of a company must set the stage for all improvement efforts, which of these 5S's is primarily driven by management?

- A. Straighten
- B. Sort
- C. Shine
- D. Sustain

Answer: D

NEW QUESTION 103

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 106

The use of Kanbans work best with pull systems for determining the timing of which products or services are produced.

- A. True
- B. False

Answer: A

NEW QUESTION 107

Kanbans work best with pull systems for determining the timing of which products or services are produced.

- A. True
- B. False

Answer: A

NEW QUESTION 112

Examples of a Visual Factory include which of these? (Note: There are 2 correct answers).

- A. White outlines on floor for proper inventory placement
- B. Documented procedures with a numerical outline
- C. Bad/Good indications of gauge readings with red and green outlines
- D. Implementing a defect inspection device

Answer: AC

NEW QUESTION 116

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 120

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 123

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 128

Long-term Data represents all the variation that one can expect within the subject process.

- A. True
- B. False

Answer: A

NEW QUESTION 131

A 1-Sample t-test is used to compare an expected population Mean to a target.

- A. True
- B. False

Answer: A

NEW QUESTION 132

Which element of waste best describes "the unnecessary movement of materials and/or goods"?

- A. Overprocessing
- B. Motion
- C. Conveyance
- D. Correction

Answer: C

NEW QUESTION 137

In order to standardize project savings financial calculation such project benefits can be compared the financial savings are typically calculated over what period of time?

- A. 12 months
- B. 24 months
- C. The remainder of the calendar year
- D. The remainder of the fiscal year

Answer: A

NEW QUESTION 138

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