



ICBB Q&As

IASSC Certified Lean Six Sigma Black Belt





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Vendor: IASSC

Exam Code: ICBB

Exam Name: IASSC Certified Lean Six Sigma Black Belt

Q&As: Demo

QUESTION 1

A _____ is used primarily to track the stability of the average value of a metric of interest.

- A. NP Chart
- B. Xbar-R Chart
- C. I-MR Chart
- D. C Chart

Correct Answer: B

QUESTION 2

For her injection molding project a Belt needed to track the percentage of defectives of a particular sample set so she used a _____ to display the data?

- A. Individual Chart
- B. C Chart
- C. Xbar Chart
- D. P Chart

Correct Answer: D

QUESTION 3

Which of these graphs demonstrates conditions which would be sufficient to enable OCAP for the process?

- A. Xbar Chart
- B. Time Series Chart
- C. Neither
- D. Both

Correct Answer: A

QUESTION 4

Control Charts were developed by Dr. Shewhart to track data over time. To detect Special Cause variation the Control Charts use which of these?

- A. Data shift analysis
- B. Outlier analysis methods
- C. Center Line and Control Limits
- D. None of the above

Correct Answer: C

QUESTION 5

Common and _____ Cause Variation are the focus of Statistical Process Control.

- A. Uncommon
- B. Ordinary
- C. Special
- D. Selective

Correct Answer: C

QUESTION 6

Special Cause Variation falls into which two categories?

- A. Natural & Unnatural
- B. Short Term & Long Term
- C. Assignable & Pattern
- D. Attribute & Discreet

Correct Answer: C

QUESTION 7

Range Charts are the technique used to determine if Special Causes are occurring within the subgroups of the _____.

- A. Histograms
- B. SPC Charts
- C. NP Charts
- D. Pareto Charts

Correct Answer: B

QUESTION 8

If the production is for higher volume and monitoring and the Mean and variability is to be monitored for four machines producing product and the characteristic to be monitored is Variable Data, which SPC Chart is best to be selected?

- A. Xbar-R Chart
- B. Individual-MR Chart
- C. NP Chart
- D. CUSUM Chart

Correct Answer: A

QUESTION 9

When a Belt Poka-Yoke's a defect out of the process entirely then she should track the activity with a robust SPC system on the characteristic of interest in the defect as an early warning system.

- A. True
- B. False

Correct Answer: B

QUESTION 10

Following the completion of a LSS project the Belt not only creates a Control Plan he also develops a _____ so those involved in the process know what to do when the critical metrics move out of spec.

- A. Response Plan
- B. Call List
- C. Chain-of-Command
- D. Defect Analysis Plan

Correct Answer: A

QUESTION 11

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 12

Which of these elements are not included in Implementation plans?

- A. Work breakdown structure
- B. Risk management plans
- C. Cost/Benefit ratios
- D. Planned audits of work completion

Correct Answer: C

QUESTION 13

Upon completion and validation of an improvement to a process a Belt and the Project Team create a Control Plan that contains which of these?

- A. Standard operating work description of the process change
- B. Description of the monitoring system in place to assure continued compliance
- C. Summary of the targeted critical metrics for process performance measurement
- D. All of the above

Correct Answer: D

QUESTION 14

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

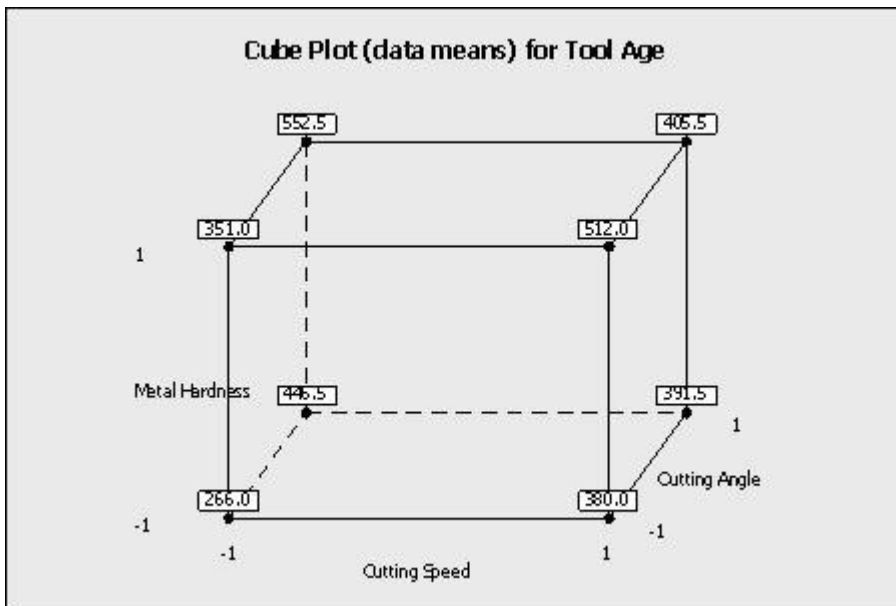
Adv	Bev	Des	Crux	Response
-1	-1	-1	-1	20
1	-1	-1	1	14
-1	1	-1	1	17
1	1	-1	-1	10
-1	-1	1	1	19
1	-1	1	-1	13
-1	1	1	-1	14
1	1	1	1	10

- 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

Which statement(s) are correct about the Factorial Plot shown here? (Note: There are 3 correct answers).



- A. When the cutting speed increased from low to high level, the tool age increases
- B. The coefficient of the metal hardness is positively related to the output of tool age
- C. The coded coefficient is lower for cutting speed than the cutting angle related to the output of tool age
- D. These plots prove a statistically significance factor with 95% confidence
- E. These plots are an example of interaction plots

Correct Answer: ABC

QUESTION 16

Data that can be measured on a continuum and has meaningful decimal subdivisions are _____ data.

- A. Continuous
- B. Surplus
- C. Discrete
- D. Variable

Correct Answer: A

QUESTION 17

A Personal Trainer was assessing her workout class participants for their body fat content and had to include data for her analysis. One of the columns listed the range of weight of the people included in the studies. This required plotting a Histogram of the weight of the people assessed for their body fat content.

While drawing the Histogram the x-axis contained a certain scale of data. Pick the scale of data that is appropriate for Histograms.

- A. Ordinal Scale Data
- B. Ration Scale Data
- C. Nominal Scale Data
- D. Interval Scale Data

Correct Answer: D

QUESTION 18

Production Line 1 is able to complete 500 units per shift. Production Line 2 is able to finish 1,500 units per shift. Production Line 2 is 3 times faster than Production Line 1. This analysis is an example of _____ Scale Data.

- A. Nominal
- B. Ratio
- C. Ordinal
- D. Interval

Correct Answer: B

QUESTION 19

A fundamental rule is that both Standard Deviation and Variance can be added.

- A. True
- B. False

Correct Answer: B

QUESTION 20

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

- A. Median
- B. Mean
- C. Mode
- D. Center Point

Correct Answer: C

QUESTION 21

A natural logarithmic base is not required for which of these distributions for probability calculations?

- A. Weibull
- B. Normal
- C. Poisson
- D. Binomial

Correct Answer: D

QUESTION 22

Which of these is not a primary cause for Non-normal Data?

- A. Skewness
- B. Mixed Distributions
- C. Kurtosis
- D. Formulosis
- E. Granularity

Correct Answer: D

QUESTION 23

Use this data to calculate the Z score. Average oF. 65, Standard Deviation: 3, Upper Spec Limit: 72

- A. 0.27
- B. 1.5
- C. 2.33
- D. 4.12

Correct Answer: C

QUESTION 24

The _____ Distribution would be the most desirable for modeling the number of stitch defects in a portion of fabric.

- A. Exponential
- B. Extended
- C. Poisson
- D. Weibull

Correct Answer: C

QUESTION 25

Which of these graphical presentations displays the values of each individual reading?

- A. Histogram
- B. Box Plot
- C. Stem and Leaf Plot
- D. X-Y Diagram

Correct Answer: C

QUESTION 26

Common and _____ Cause Variation are the focus of Statistical Process Control.

- A. Uncommon
- B. Ordinary
- C. Special
- D. Selective

Correct Answer: C

QUESTION 27

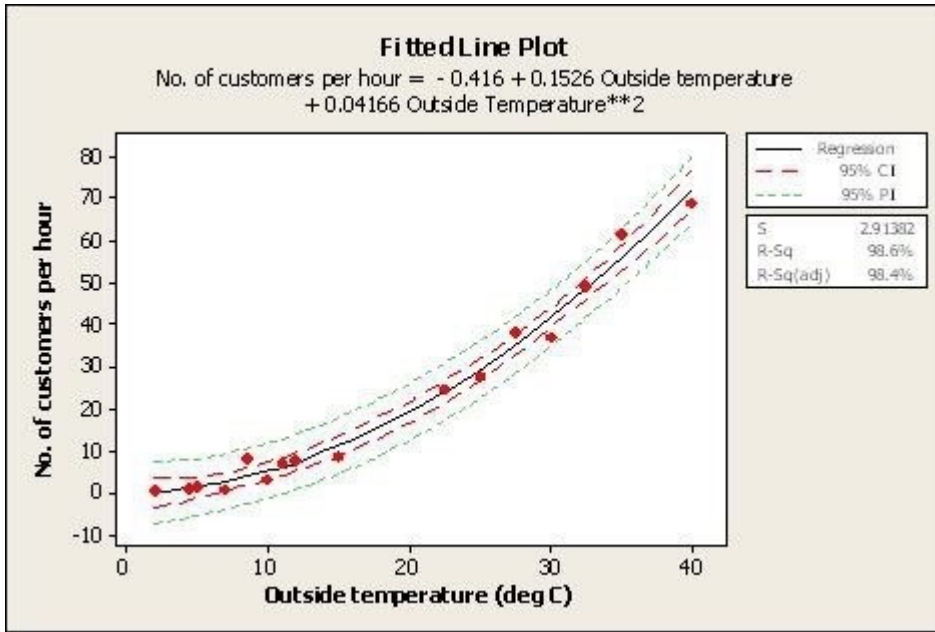
The Lean toolbox includes all of these items except _____.

- A. Mistake Proofing
- B. Visual Factory
- C. Design of Experiments
- D. Inventory Management

Correct Answer: C

QUESTION 28

Which statement(s) are correct about the Regression shown here? (Note: There are 2 correct answers).



- A. The dependent variable is the outside temperature
- B. The relationship between outside temperature and number of customers per hour is a Linear Regression
- C. The dashed lines indicate with 95% confidence where all of the process data should fall between
- D. The dashed lines indicate with 95% confidence the estimate for the Quadratic Regression Line
- E. The predicted number of customers per hour is close to 5 if the outside temperature is 10 deg C

Correct Answer: DE

QUESTION 29

One of the methods of testing a Measurement System is to have at least two people take multiple readings from the same instrument and of the same sample set to judge the Repeatability and Reproducibly. This approach is called a _____ study.

- A. Correlation Analysis
- B. Gage R & R
- C. Bimodal
- D. Dual Attribute

Correct Answer: B

QUESTION 30

The Waste of Overproduction is defined as _____.

- A. The unnecessary movement of people and equipment
- B. The liability of materials that are bought, invested in and not immediately sold or used
- C. Producing more than the next step needs or more than the customer buys
- D. The extra movement of material

Correct Answer: C

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