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ASQ CSSBB Certification Exam 2024 with 100% correct answers

01. Typically, which of the following actions is NOT used to reduce process cycle time?

Please choose the correct answer.

- a) Analyzing current processes
- b) Reducing queue times
- c) Setting scheduling priorities
- d) Implementing activity-based costing - correct answer Answer:

d) Implementing activity-based costing

02. Which of the following terms is used to describe the risk of a type I error in a hypothesis test?

Please choose the correct answer.

- a) Power
- b) Confidence level
- c) Level of significance
- d) Beta risk - correct answer Answer:

c) Level of significance

03. One characteristic of attributes data is that it is always

Please choose the correct answer.

- a) continuous

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- Improve

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ASQ Six Sigma Black Belt Certification - CSSBB Sample Questions (Q44-Q49):

NEW QUESTION # 44

Using this partial Z Table, how many units from a month's production run are expected to not satisfy customer requirements for the following process?

Upper specification limit: 7.2 Lower specification limit: 4.3 Mean of the process: 5.9 Standard Deviation: 0.65 Monthly production: 450 units

- A. 0
- **B. 1**
- C. 2
- D. 3

Answer: B

NEW QUESTION # 45

In the Theory of Constraints, the performance of a series of interconnected processes is driven by the performance of the

- **A. weakest performing discrete process**
- B. operations staff
- C. strongest performing discrete process
- D. scrap or rework rates required by the process

Answer: A

Explanation:

The correct answer is A. weakest performing discrete process . The CSSBB Theory of Constraints material explains that bottleneck resources are those whose capacity is equal to or less than the demand placed upon them, and it further states that a bottleneck will restrain the entire throughput . In the drum-buffer-rope explanation, the drum is described as the constraint that controls the pace of the process .

This means the overall performance of interconnected processes is governed by the process step with the least capacity or greatest constraint. In plain terms, the chain moves at the pace of its weakest link. The strongest process does not determine overall throughput if another process is limiting the flow. Operations staff and scrap/rework rates may influence performance, but the defining TOC principle is that the constraint or bottleneck drives system throughput. Therefore, among the answer choices, the best verified CSSBB answer is A. weakest performing discrete process .

NEW QUESTION # 46

Which one of the listed tools is frequently used to help drill down to possible causes once a Fishbone Diagram is constructed?

- A. Ishikawa Diagram

- B. 3 When Analysis
- C. 5 Why Analysis
- D. Skeleton Diagnostic

Answer: C

NEW QUESTION # 47

The following is an incomplete ANOVA table.

What is the value of the F statistic used to test for differences in treatment?

- A. 1.07
- B. 5.37
- C. 3.11
- D. 2.07

Answer: C

Explanation:

In a one-way ANOVA, the F statistic is calculated by dividing the mean square for treatment by the mean square for error. From the table, the treatment sum of squares is 333 with 4 degrees of freedom, and the error sum of squares is 310 with 20 degrees of freedom.

First calculate the treatment mean square:

$$MS \text{ treatment} = 333 / 4 = 83.25$$

Then calculate the error mean square:

$$MS \text{ error} = 310 / 20 = 15.5$$

Now compute the F statistic:

$$F = 83.25 / 15.5 = 5.37$$

That value corresponds to choice D.

ANOVA is an Analyze Phase tool used by Black Belts to test whether there are statistically significant differences among treatment means. The F ratio compares variation between groups to variation within groups. A larger F value suggests that treatment effects may be real rather than due to random error. In this case, the calculations from the given sums of squares and degrees of freedom clearly produce 5.37. Therefore, the correct answer is D, 5.37.

NEW QUESTION # 48

Which of the following expressions represents a half-fraction run for a two-level design with n factors?

- A. 2^{n-1}
- B. 2^{n-3}
- C. 2^{n-2}
- D. 2^n

Answer: A

Explanation:

The correct answer is B. 2^{n-1} . In DOE, a full factorial experiment for n factors at two levels requires 2^n runs

. A half-fraction design uses exactly one-half of those runs, so the number of runs becomes:

$$(1/2)(2^n) = 2^{n-1}$$

The CSSBB material identifies these as two-level fractional factorial designs and explains that fractional designs are used to reduce the number of experimental trials while still learning about the most important factor effects. This is a standard Six Sigma Improve-phase concept because DOE is often used to optimize a process efficiently without running every possible treatment combination. The other options represent different design sizes. 2^n is the full factorial. 2^{n-2} would be a quarter-fraction, and 2^{n-3} would be an eighth-fraction. Therefore, when the question specifically asks for a half-fraction run for a two-level design with n factors, the correct mathematical expression is 2^{n-1} . That makes option B the verified answer.

NEW QUESTION # 49

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