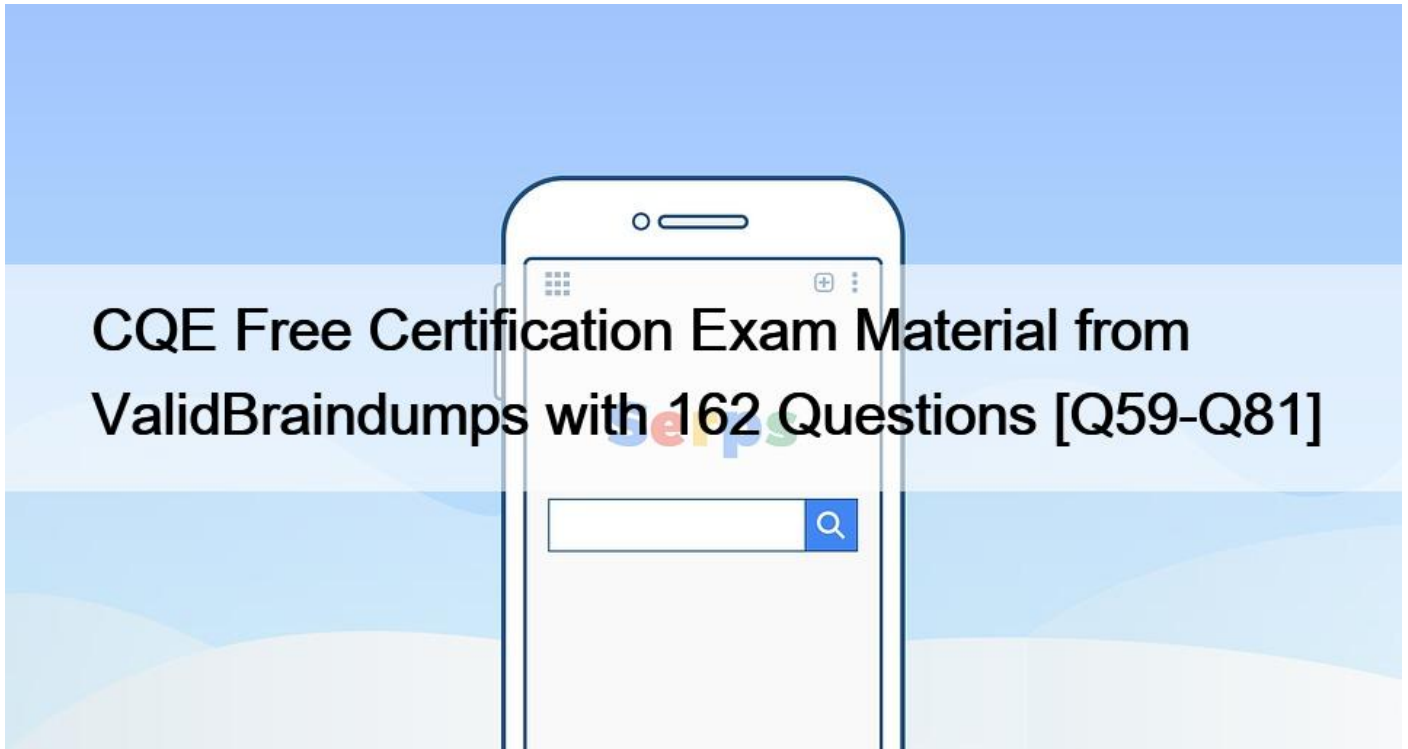


CQE Free Certification Exam Material from ValidBraindumps with 162 Questions [Q59-Q81]



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NO.59 In order to implement a continuous improvement strategy, a company may institute a steering committee or improvement council. Which of the following would generally NOT be a task performed by this council?

- * The development of a quality vision for the company.
- * The combined development and implementation of the company improvement strategy.
- * The definition of certain quality objectives for sections of the company.
- * The development of quality education and communication modules for the organization.

NO.60 The distribution of a characteristic is negatively skewed. The sampling distribution of the mean for large samples is:

- * Negatively skewed.
- * Approximately normal.
- * Positively skewed.
- * Lognormal.

NO.61 An X-bar and R chart was prepared for an operation using twenty samples with five pieces in each sample; X-bar was found to be 33.6 and R-bar was 6.20. During production, a sample of five was taken and the pieces measured 36, 43, 37, 25, and 38. At the time, this sample was taken:

- * Both the average and range were within control limits.
- * Neither the average nor range were within control limits.
- * Only the average was outside control limits.

* Only the range was outside control limits.

NO.62 Applications for surface plate includes which of the following?

I. Referencing plane for length measurements.

II. Referencing plane for parallelism measurements.

III. Establishing a datum plane for dimensional layout.

IV. Waiting place for delicate parts.

V. Keeping extra gages when not in use.

* I and II only

* I and IV only

* I, II and III only

* III and V only

NO.63 A vendor may be audited both before and during the execution of a contract. During such a vendor audit, the focus may be directed at the management and resource management of the company. Which of the following areas would be EXCLUDED during such an audit?

* Use and planning of time, manpower and training.

* Defined quality responsibilities.

* Company philosophy and organizational charts.

* Design and process capabilities.

NO.64 A lot is known to be 1.2% defective. Five units are randomly selected from the lot, and the lot is accepted if 1 or fewer defects are found. What is the probability of the lot being rejected?

* 0.9985

* 0.01

* 0.00173

* 0.00223

Explanation/Reference:

NO.65 Benchmarking might be defined as any of the following EXCEPT:

* A process for rigorously measuring your performance versus the best-in-class companies.

* A standard of excellence or achievement against which other similar things must be measured or judged.

* Comparing the performance of one company to a set of standards and then to another's performance.

* The search for best industry practices that lead to superior performance.

NO.66 Which of the following parties, traditionally initiates an audit?

* The client.

* The plant manager.

* The lead auditor.

* The auditee.

Explanation/Reference:

NO.67 Four ingredients are blended to make a final product. Using the data below, what is the expected weight and variation of the final product?

Ingredient A 70 ± 3.00 grams

Ingredient B 20 ± 1.73 grams

Ingredient C 15 ± 1.73 grams

Ingredient D 10 ± 1.00 grams

* 115 ± 7.46 grams

* 115 ± 5.73 grams

* 115 ± 4.00 grams

* 115 ± 3.61 grams

Explanation

NO.68 The existence of a quality control manual at your key supplier means

- * That a quality system has been developed.
- * That a quality system has been implemented.
- * That the firm is quality conscious.
- * That the firm is a certified supplier.

NO.69 Periodically, a sample of 20 items are randomly selected from a population that is normally distributed, the average is computed, and plotted. Which of the following statements is correct?

- I. The average of the logarithms of the values is lognormally distributed.
 - II. The standard deviation of the averages is equal to the standard deviation of the individuals divided by the square root of 20.
 - III. The variance of the averages is equal to the variance of the individuals divided by the square root of 20.
- * I only
 - * II only
 - * I and II only
 - * I and III only

NO.70 Which of the following would be the MOST important considerations when establishing inspection points within a production operation?

- I. Inspection to prevent defects from entering the system.
 - II. Inspection after all operations (both manual and automated).
 - III. Inspection prior to a painting or masking operation.
- * I only
 - * I and II only
 - * I and III only
 - * I, II and III

NO.71 If the probability of a success on a single trial is 0.2 and 3 trials are performed, what is the probability of at least one success?

- * 0.008
- * 0.384
- * 0.488
- * 0.600

NO.72 A graph of a data set, composed of a series of rectangles, each proportional in width to the range of values in a class and proportional in height to the number of items or fraction of items falling in these classes, is called which of the following?

- * Histogram.
- * Raw data.
- * Ogive.
- * Venn diagram.

NO.73 Which of the following nondestructive testing methods can be used to evaluate sub-surface discontinuities in aluminum bar stock?

- . Microwave.
- . Magnetic particle.
- . Pulse echo.
- . Eddy current.
- * I,IIandIVonly
- * I andIIIonly
- * IIIandIVonly
- * I andIVonly

NO.74 Determine the coefficient of variation for the last 500 pilot plant test runs of high temperature film having a mean of 900 Kelvin with a standard deviation of 54.

- * 6%
- * 16.7%
- * 60%
- * 31%

Explanation/Reference:

Explanation:

$$\% \text{ Coefficient of Variation} = S / (\bar{X}) * 100$$

$$54 / 900 * 100 = 6\%$$

NO.75 A process is normally distributed with a mean of 200 and a variance of 25. One item is randomly selected, what is the probability of this item having a value greater than 210?

- * 0.3446
- * 0.0228
- * 0.0012
- * 0.0375

NO.76 Which of the following is a valid null hypothesis?

- * $p > 1/8$
- * < 98
- * The mean of population A is not equal to the mean of population B
- * $\mu = 110$

NO.77 Maintainability is

- * The probability of a system being restored to functional operation within a given period of time.
- * Performing adequate maintenance on a system.
- * Probability of survival of a system for a given period of time.
- * Maintaining a machine in satisfactory working condition.

NO.78 A bin contains 40 pills with a weight of 3.1 gm. each, 30 pills weighing 3.2 gms each and 10 pills weighing 3.3 gms each. The weight of an average pill is found from

- A. $\frac{3.1 + 3.2 + 3.3}{3}$
- B. $\frac{(3.1)(40) + 3.2(30) + 3.3(10)}{3}$
- C. $\frac{(3.1 + 3.2 + 3.3)(10 + 30 + 40)}{80}$
- D. $\frac{(3.1)(40) + 3.2(30) + 3.3(10)}{80}$

- * Option A
- * Option B
- * Option C
- * Option D

NO.79 Compute the upper control limit for an s chart, based on a sample size of 10, if the process is in control with a mean of 40 and a sample standard deviation of 7.

- * 11.7
- * 13.3
- * 15.7
- * 21

NO.80 The failure rate model above is used to show a typical relationship of many parts between their failure rate and the time in service. The reliability function for period B is BEST represented by



- A. $R(t) = \lambda t$
- B. $R(t) = \lambda$
- C. $R(t) = \lambda e^{-\lambda t}$
- D. $R(t) = e^{-\lambda t}$

- * Option A
- * Option B
- * Option C
- * Option D

NO.81 If a distribution is skewed to the right

- * The mode is between the median and the mean.
- * The mean is between the mode and the median.
- * The mode is greater than the median.
- * None of the above.

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