



# Quality Engineer Exam

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#### **QUESTION 1**

When asked to make recommendations on how to correct any deficiencies noted in the exit report, the auditor(s) should

- A. Make the best recommendation possible.
- B. Confer with the client first.
- C. Avoid a recommendation in writing but help the auditee of possible.
- D. Offer no specific advice and few suggestions.

Correct Answer: D

#### **QUESTION 2**

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?

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

Correct Answer: A

#### **QUESTION 3**

The steeper the OC-curve, the

- A. Less protection for both producer and consumer.
- B. More protection for both producer and consumer.
- C. The lower the AQL.
- D. The smaller the sample size.

Correct Answer: B

# **QUESTION 4**

A process is turning out end items that have defects of type A or type B or both. If the probability of type A defect is 0.1 and of a type B is 0.2, the probability that an end item will have no defect is

A. 0.7



- B. 0.30
- C. 0.72
- D. 0.68
- Correct Answer: C

# **QUESTION 5**

The distribution of a characteristic is negatively skewed. The sampling distribution of the mean for large samples is:

- A. Negatively skewed.
- B. Approximately normal.
- C. Positively skewed.
- D. Lognormal.

Correct Answer: B

# **QUESTION 6**

An X-bar and R chart with n=5 has been plotted for some time and has demonstrated random variation. Upon review of the last 30 plot points, the expected number of runs around the centerline on the X-bar chart is expected to be approximately which of the following?

A.	4

B. 9

C. 12

D. 16

Correct Answer: D

# **QUESTION 7**

A process has been experiencing problems lately. The operators charting the process have identified the cause to be due to a change in incoming materials. This problem is

- A. Attributed to purchasing.
- B. A special cause.
- C. A common cause.
- D. A normal event.



Correct Answer: B

# **QUESTION 8**

Which of the following distributions have the set of all real numbers as their domain?

- A. Lognormal
- B. Exponential
- C. Weibull
- D. None of the above.

Correct Answer: D

#### **QUESTION 9**

Regardless of the distribution of the individuals, the distribution of the average of n samples will follow which distribution as n becomes large?

A. Normal

- B. Poisson.
- C. Exponential.
- D. Lognormal.

Correct Answer: A

#### **QUESTION 10**

A single sampling plan calls for a sample size of 80 with an acceptance number of five and a rejection number of six If the quality of the submitted lots 10 percent defective. then the percent of lots expected to be accepted in the long run is approximately.

A. 6%

B. 10%

C. 20%

D. 30%

Correct Answer: C

# **QUESTION 11**



Benchmarking might be defined as any of the following EXCEPT:

- A. A process for rigorously measuring your performance versus the best-in-class companies.
- B. A standard of excellence or achievement against which other similar things must be measured orjudged.
- C. Comparing the performance of one company to a set of standards and then to another\\'sperformance.
- D. The search for best industry practices that lead to superior performance.

#### Correct Answer: C

# **QUESTION 12**

Which of the following are TRUE statements regarding the use of visual inspection?

- . Reference standards can be used.
- . It provides consistency between inspectors.
- . It is relatively expensive.
- . It can be quickly performed.
- A. I and IV only
- B. I,IIandIVonly
- C. IlandIVonly
- D. I,II,IIIandIV

Correct Answer: A

#### **QUESTION 13**

Which of the following is a valid null hypothesis?

A. p > 1/8

# Β.

C. The mean of population A is not equal to the mean of population B

D. mu = 110

Correct Answer: D

# **QUESTION 14**

A normal (Gaussian) distribution curve is



- A. Bell shaped.
- B. Dome shaped.
- C. Pear shaped.
- D. Positively skewed.
- Correct Answer: A

# **QUESTION 15**

An improvement in quality costs is MOST clearly indicated when:

- A. Appraisal and failure costs drop.
- B. Prevention costs increase.
- C. Total quality costs fall below 15% of total sales.
- D. Management objectives are met.

Correct Answer: D

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