## $\operatorname{CQE}^{\text {QRAs }}$

Quality Engineer Exam

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## QUESTION 1

A company is planning to completely change its employee performance, appraisal and reward system. Which of the following is NOT viable for consideration in the new system?
A. Integrating subordinate, peer, customer, and self-evaluations with supervisory ratings.
B. Using continuous improvement, quality and customer satisfaction as key criteria.
C. Requiring work team or group evaluations that are equal in emphasis to individual evaluations.
D. Requiring less frequent performance reviews, but utilizing many rating categories.

Correct Answer: D

## QUESTION 2

Given the following probabilities
1 or more defects $=.702$ or more defects $=.353$ or more defects $=.154$ or more defects $=.03$
What is the probability of 2 or fewer defects?
A. 0.20
B. 0.35
C. 0.65
D. 0.85

Correct Answer: D

## QUESTION 3

What is the probability of an item failing in less than 5 hours if it has a constant failure rate of $1 /$ hour?
A. 0.00674
B. 0.99127
C. 0.99326
D. 0.99642

Correct Answer: C

A process is in control with a defect rate of $0.2 \%$. A sampling plans calls for 30 items to be selected at random, and for the process to be shut down and corrected if any defects are found. How often will the process be shut down without a change in the defect rate?
A. $1.22 \%$ of the time
B. $5.83 \%$ of the time
C. $3.91 \%$ of the time
D. None of the above

Correct Answer: B

## QUESTION 5

What is the standard deviation of the values below?
$4.5,5.1,6.2,2.1,3.9$
A. 1.136
B. 2.087
C. 1.362
D. 1.522

Correct Answer: C

