Vendor:GAQM

Exam Code:LSSMBB

Exam Name: Lean Six Sigma Master Black Belt

Version: Demo

QUESTION 1

Sally and Sara sell flower pots at their garage sale. Sally motivates Sara mentioning that they will sell a minimum of 22 pots per day if the outside temperature exceeds 60o F. From a sample, whose population is assumed to follow a Normal Distribution, taken for 30 days at 60 degrees or more an average of 18.2 pots per day were sold with a Standard Deviation of 0.9 pots. What is the Z value for this sales process?

A. 1.23

B. 1.62

C. 2.11

D. 4.22

Correct Answer: D

QUESTION 2

Suppose an X-bar / S Chart revealed that the variation of a process was consistent over time (consistent standard deviation, consistent mean) but a significant proportion of outcomes fell outside the customer requirements. Which of the following conclusions can best be made about the process?

A. The process is in control but has poor capability

B. The process variation is out of control

C. Special or assignable causes are affecting the process

D. The process mean needs to be reduced

Correct Answer: A

QUESTION 3

Some of the sources for different types of error that can be quantified using Statistical Analysis are which of these?

A. Error in sampling

B. Bias in sampling

C. Error in measurement

D. All of the above

Correct Answer: D

QUESTION 4

For Attribute Data, Process Capability is defined as the average proportion of nonconforming products.

A. True

B. False

Correct Answer: A

QUESTION 5

When a Belt decides to use written procedures and visual controls to improve the consistency of the tasks that must occur in the process he is improving he has utilized the _____ activity of 5S.

A. Sustaining

B. Sorting

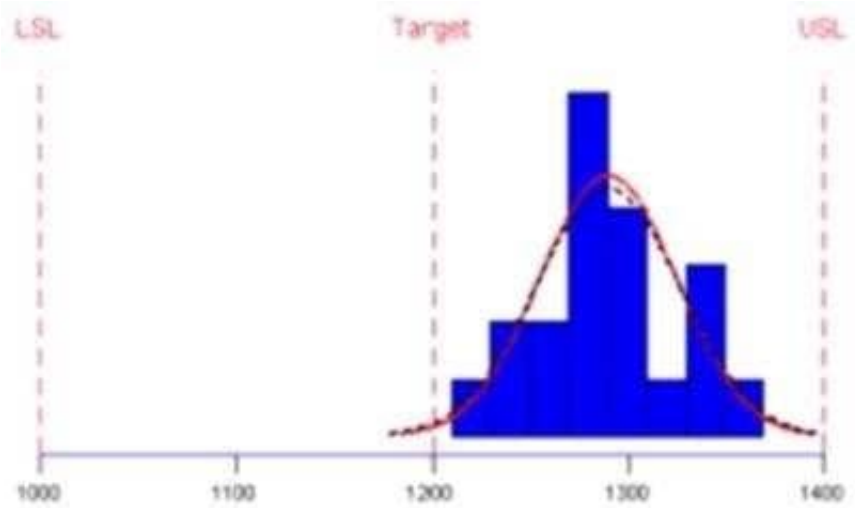
C. Standardizing

D. Straightening

Correct Answer: C

QUESTION 6

A black belt is reviewing a process, as shown below. The specification limits are 1200 +1— 200. Is the process stable?



A. Yes, all the data meets specification.

B. No, there is data that exceeds the specification limits.

C. No, the data is not on target.

D. Can\\'t tell from this graph.

Correct Answer: D

QUESTION 7

For the data shown here which statement(s) are true? (Note: There are 2 correct answers).

Grade A	Grade B	Grade C
0.917	1.1	0.63
0.68	0.173	4.17
1.74	0.24	0.6
0.3	0.67	0.84
0.33	6.94	0.22
4.13		

A. With 95% confidence, we cannot conclude if the samples are from three Normal Distributions

B. With greater than 95% confidence, we conclude the samples are from Non-normal Distributions

C. If we wanted to compare the Central Tendencies of these three samples we would use the one way ANOVA test

D. If we wanted to compare the Central Tendencies of these three samples we could use Mood\\'s Median test

E. If we wanted to compare the Central Tendencies of all three samples we could use the Mann-Whitney test

Correct Answer: BD

QUESTION 8

A Belt working in a supply chain environment has to make a decision to change suppliers of critical raw materials for a new product upgrade. The purchasing manager is depending on the Belt\\'s effort requiring that the average cost of an internal critical raw material component be less than or equal to $3,800 in order to stay within budget. Using a sample of 38 first article components, a Mean of the new product upgrade price of $3,680, and a Standard Deviation of $120 was estimated. In order to increase the Long Term Z value to 5, what is the maximum long term variation in pricing the Belt can accept for his upgraded critical raw material component?

A. $6

B. $12

C. $24

D. $48

Correct Answer: C

QUESTION 9

A Belt has determined that the inventory of repair parts at a rework station can be reduced by 45%. According to Cost of Poor Quality (COPQ) definitions inventory reduction would be considered _____.

A. Soft Savings

B. COPQ efficiency

C. Median Savings

D. Hard Savings

Correct Answer: D

QUESTION 10

The distance between the Mean of a data set and the Point of Inflection on a Normal curve is called the _____.

A. Curve Spread

B. Standard Deviation

C. Numerical Average

D. Data Breadth

Correct Answer: B

QUESTION 11

Special Cause Variation falls into which two categories? (Note: There are 2 correct answers).

A. Natural

B. Short term

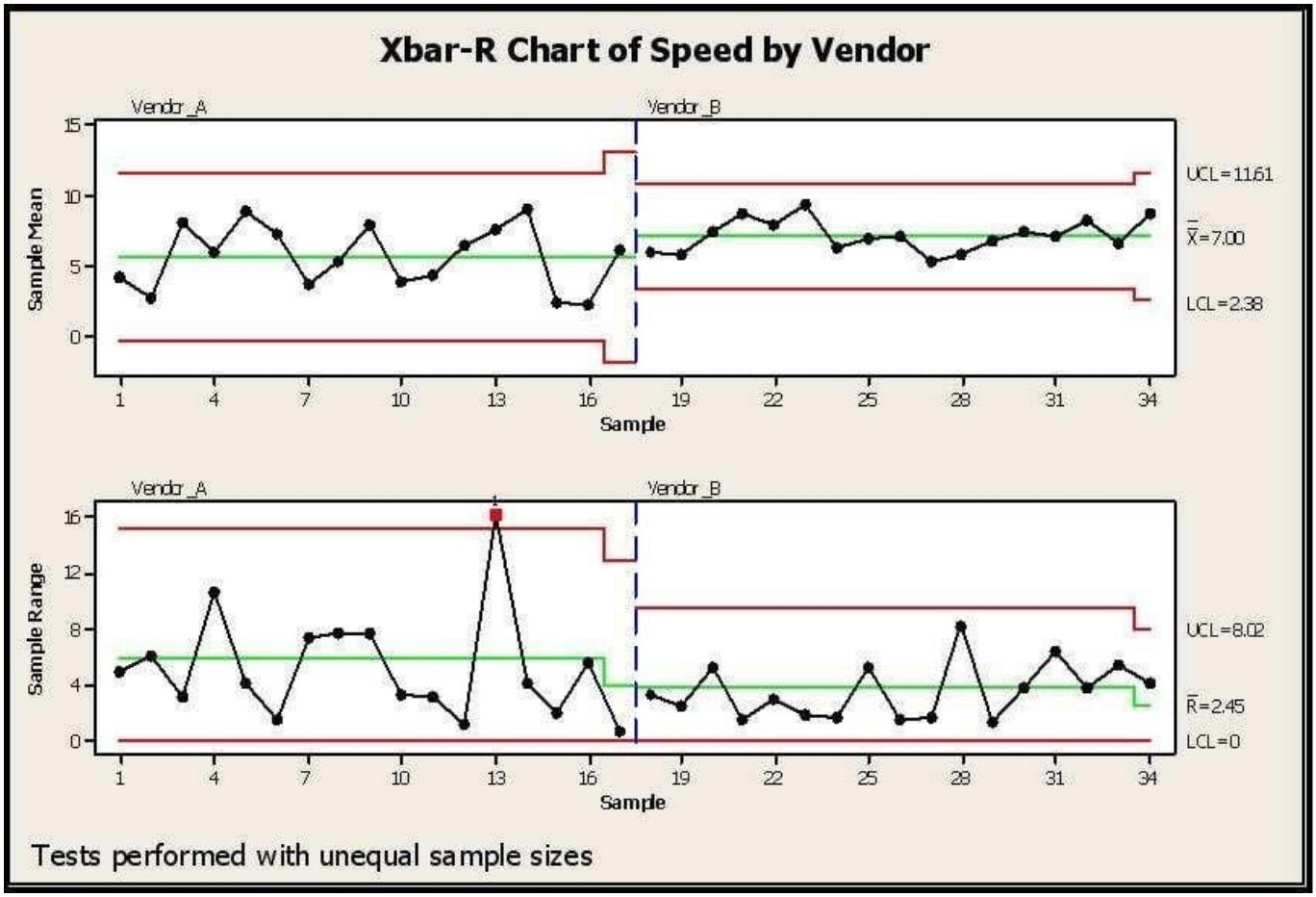
C. Assignable

D. Pattern

Correct Answer: CD

QUESTION 12

SPC Charts are used extensively in different business and decision-making environments. In this example a vendor is being selected based on speed of delivery. Which of the conclusions would help you pick a vendor for your needs regarding lead-time of delivery from your vendors? (Note: There are 4 correct answers).



A. Vendor A with a much shorter lead time in delivery

B. Vendor B as it has a better consistency (lower variance) on lead time

C. Vendor B as Vendor A shows a situation out of control as shown in red

D. Vendor B as the Control Limits are much narrower than Vendor A

E. Vendor B with higher lead time, but a process with much narrower Control Limits

Correct Answer: BCDE