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Question 1

Question Type: MultipleChoice

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 $4,200 in order to stay within budget. Using a sample of 35 first article components, a Mean of the new product upgrade price of $4,060, and a Standard Deviation of $98 was estimated. The Alternative Hypothesis in the above example is?

Options:

A- The Standard Deviation is equal to $300

B- The Mean is less than $4,320

C- The Mean is equal to $4,060

D- The Mean is less than $4,200

E- The Mean is greater than $ 4,200

Answer:

E

Question 2

Question Type: MultipleChoice

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 $4,200 in order to stay within budget. Using a sample of 35 first article components, a Mean of the new product upgrade price of $4,060, and a Standard Deviation of $98 was estimated. Select the answer that best states the Practical Problem.

Options:

A- If the average cost per component is $4,200 or less, then the purchase manager will introduce the new product upgrade with new components

B- If the average cost per component is greater than $4,200, then the purchase manager will introduce the new product upgrade with new components

C- Only if the average cost per product upgrade is $4,060, will the purchase manager introduce new product upgrades with new components

D- If the average cost per new product upgrade is less than $180, then the purchase manager will introduce the new product upgrade with new components

Answer:

C

Question 3

Question Type: MultipleChoice

Which of these might contribute to similar distributions having Unequal Variance?

Options:

A- Extreme tails

B- Outliers

C- Multiple Modes

D- All of the above

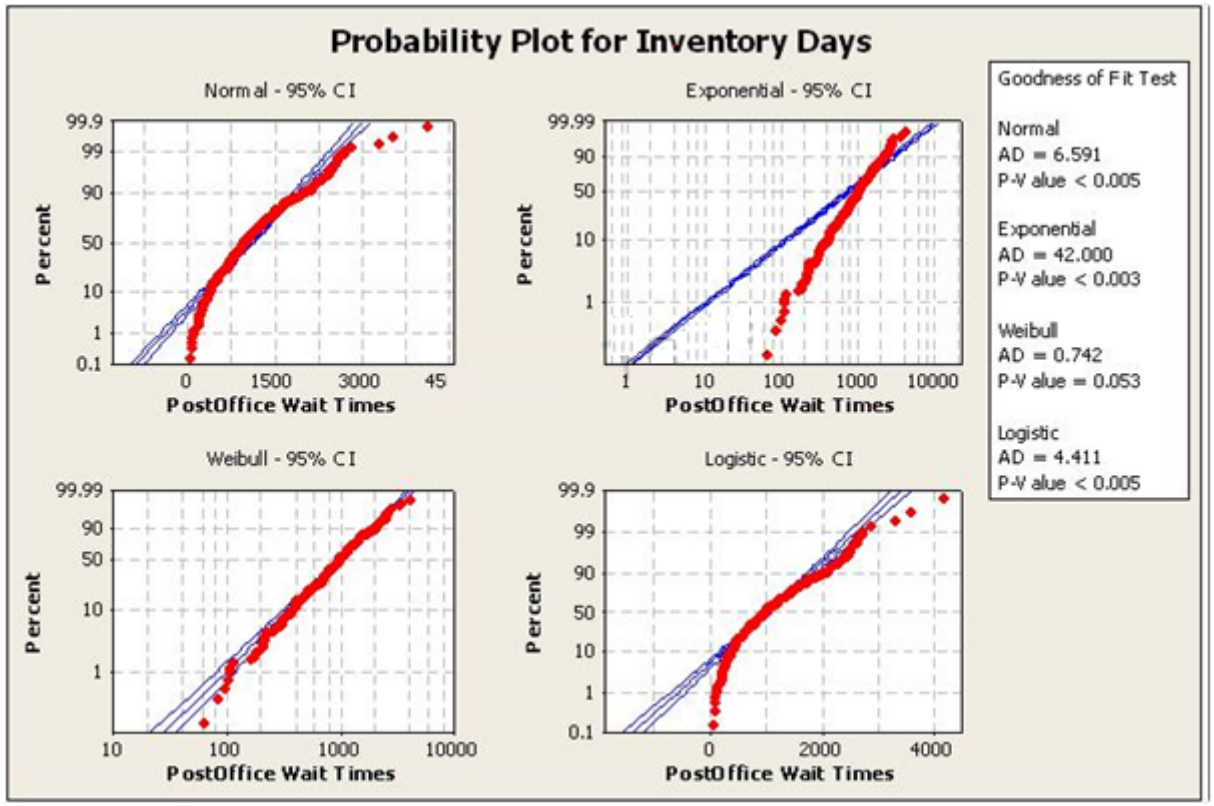
Answer:

D

Question 4

Question Type: **MultipleChoice**

A Lean Six Sigma project is attempting to reduce inventory days. The Process Capability will be monitored as part of the Control Phase to track the sustainability of the improvement.



Which distribution type is best used for performing the Capability Analysis?

Options:

A- Weibull Distribution

B- Normal Distribution

C- Exponential Distribution

D- Logistic Distribution

E- Gaussian Distribution

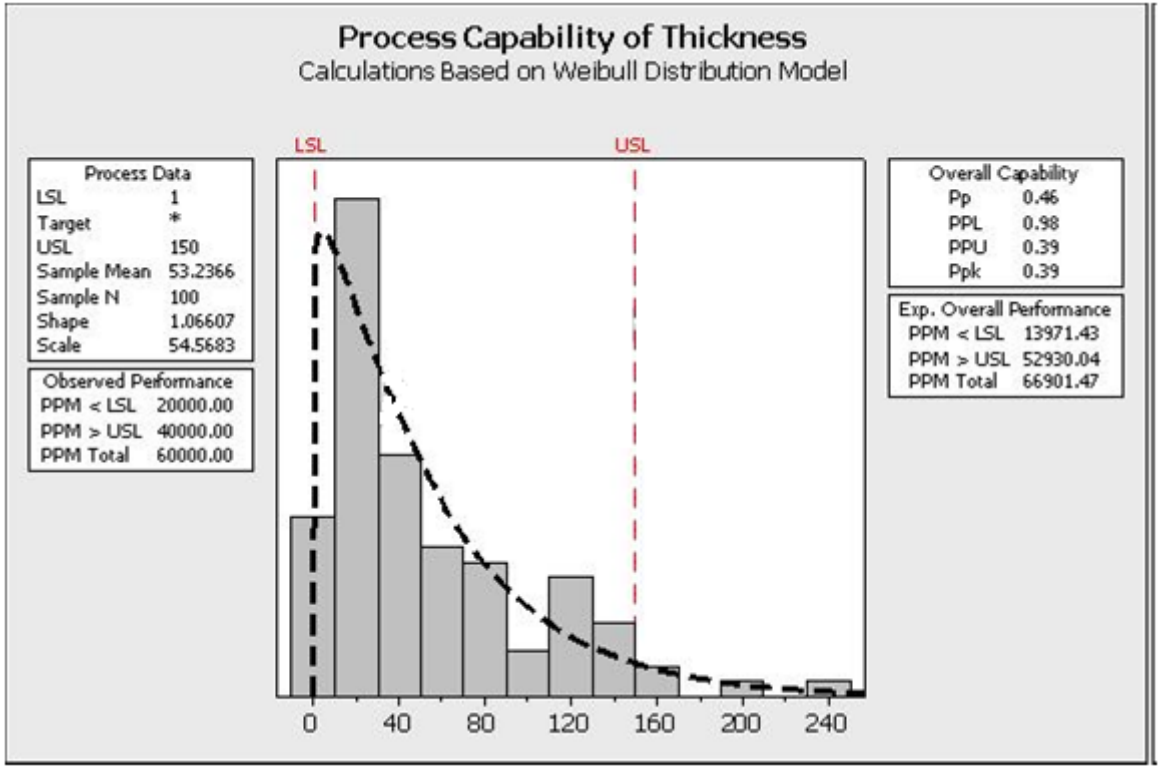
Answer:

A

Question 5

Question Type: **MultipleChoice**

Review the analysis shown here. Which statements are true about the process? (Note: There are 3 correct answers).



Options:

A- The initial focus for this project would be to determine why the thicknesses are so frequently too low

B- The majority of the process is closer to the lower specification limit

C- This process is described with the Weibull Distribution

D- The process has more problems with Variation than Centering

E- The process follows a non-normal distribution with the given data

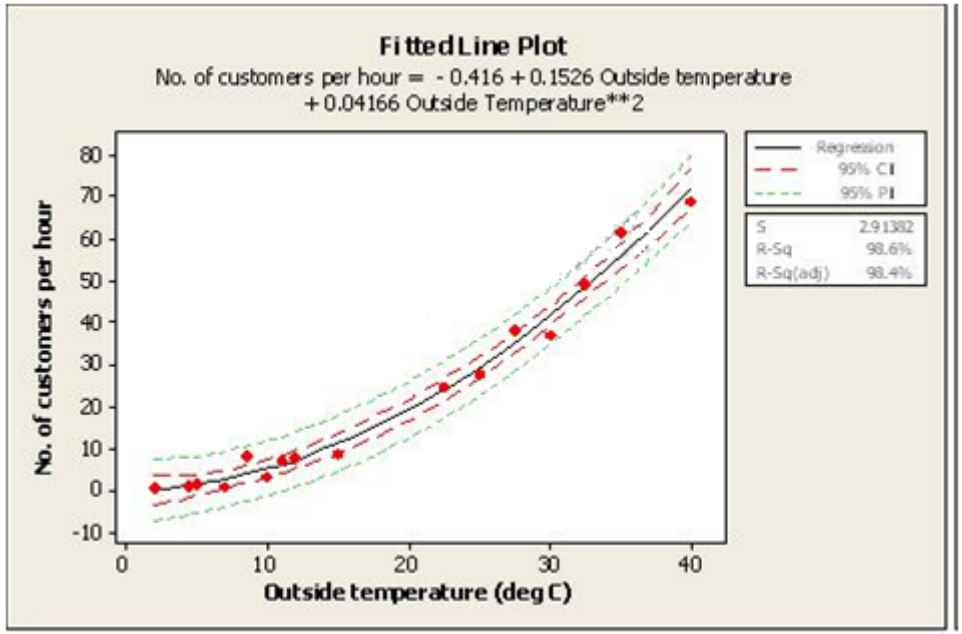
Answer:

B, D, E

Question 6

Question Type: MultipleChoice

Which statement(s) are correct about the Regression shown here? (Note: There are 2 correct answers).



Options:

A- The dependent variable is the outside temperature

B- The relationship between outside temperature and number of customers per hour is a Linear Regression

C- The dashed lines indicate with 95% confidence where all of the process data should fall between

D- The dashed lines indicate with 95% confidence the estimate for the Quadratic Regression Line

E- The predicted number of customers per hour is close to 5 if the outside temperature is 10 deg C

Answer:

D, E

Question 7

Question Type: MultipleChoice

A valid mathematical Regression represents all of the characteristics shown except _____.

Options:

A- All of the standardized residuals will be within 3 Standard Deviations

B- The sum of the residuals is zero

C- The residuals when plotted follow a Normal Distribution

D- Most standardized residuals are within 2 Standard Deviations

E- The Residual is equal to the difference between the observed and predicted values

Answer:

A