

QUESTIONS & ANSWERS

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APP-101

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E. none of the above

Answer: C

QUESTION: 112

A process shows the following number of defects. Each sample size for this process is 85. 3 8 2 7 7 6 8 8 9 5. What control chart should be used?

- A. \bar{x} -bar and R
- B. median
- C. individual and moving range
- D. p
- E. np
- F. c
- G. u
- H. none of the above

Answer: F

QUESTION: 113

A process shows the following number of defects. Each sample size for this process is 85. 3 8 2 7 7 6 8 8 9 5 Find the control limits.

- A. none and 13.8
- B. 12.6 and 25.2
- C. none and 25.2
- D. none of the above

Answer: A

QUESTION: 114

A process shows the following number of defectives. Each sample size for this process is 85. 3 8 2 7 7 6 8 8 9 5. What control chart should be used?

- A. \bar{x} -bar and R
- B. median
- C. individual and moving range
- D. p

- E. np
- F. c
- G. u
- H. none of the above

Answer: E

QUESTION: 115

A process shows the following number of defectives. Each sample size for this process is 85.3 8 2 7 7 6 8 8 9 5 Find the control limits.

- A. none and 13.5
- B. 12.6 and 25.2
- C. none and 25.2
- D. none of the above

Answer: A

QUESTION: 116

An x-bar and R chart has four part measurements per sample The control limits on the averages chart are 2.996 and 3.256. Assume the process data form a normal distribution. What is the probability that the next plotted point falls outside the control limits?

- A. 0.00135
- B. 0.0027
- C. 0.0054
- D. none of the above

Answer: B

QUESTION: 117

An x-bar and R chart has four part measurements per sample The control limits on the averages chart are 2.996 and 3.256. Assume the process data form a normal distribution. What is the probability that the next part measurement falls outside the control limits?

- A. 0.00135

- B. 0.0027
- C. 0.0681
- D. 0.1362
- E. 0.2724
- F. none of the above

Answer: D

QUESTION: 118

An assembly line has 3×3 squares painted behind each person. Signs indicate the parts and quantities that should be placed there. This is an example of:

- A. visual factory
- B. kanban
- C. poka-yoke
- D. standard work
- E. set up time reduction (SMED)

Answer: B

QUESTION: 119

When Tricia empties a box of capacitors she places it at a designated spot on her work table. Sam notices the empty box and brings a full box of capacitors from the stock room. This is an example of:

- A. visual factory
- B. kanban
- C. poka-yoke
- D. standard work
- E. set up time reduction (SMED)

Answer: B

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QUESTION: 120

A meeting is called for all three shifts to determine the settings to be used on machine #45. This is an example of:

- A. visual factory

- B. kanban
- C. poka-yoke
- D. standard work
- E. set up time reduction (SMED)

Answer: D

QUESTION: 121

There have been some instances in which 1.5 inch sheet metal screws are used where 1.25 inch should have been used. This produces a critical defect. The decision is made to have all 1.25 inch screws have a square reduced head and all 1.5 inch screws be Phillips. This is an example of:

- A. visual factory
- B. kanban
- C. poka-yoke
- D. standard work
- E. set up time reduction (SMED)

Answer: C

QUESTION: 122

A helpful time to use a Quality Function Deployment matrix is:

- A. while planning for a new or redesigned process
- B. while planning for new or redesigned parts
- C. while planning for a new or redesigned product
- D. all of the above
- E. none of the above

Answer: D

QUESTION: 123

“Robust design” refers to the ability of the product or service:

- A. to function the same in different conditions
- B. to remain strong
- C. to last a long time

D. to have a high reliability

Answer: A

QUESTION: 124

The overall tolerance for three components in series in an electrical circuit is $\pm 10\%$. Assuming normal, stable, capable processes produce the components, use stack tolerance techniques to find a set of tolerances for the three components.

- A. 3, 3 and 4 respectively
- B. 7, 7 and 6 respectively
- C. 8, 8 and 8 respectively
- D. 10, 10 and 14 respectively

Answer: D

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