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Question: 1

Who introduced the concept of 'Statistical Process Control' (SPC)?

Response:

- A. Sir Ronald A. Fisher
- B. W. Edwards Deming
- C. Joseph M. Juran
- D. Walter A. Shewhart

Answer: D

Question: 2

What is the name of the Six Sigma roadmap that is used for design rather than improving the manufacturing of a product?

Response:

- A. MSA
- B. DMAIC
- C. DMADV
- D. DOE

Answer: C

Question: 3

When analyzing a data set we frequently graph one metric as a function of another. If the slope of the Correlation line is -2.5 we would say the two metrics are _____ correlated?

Please choose the correct answer.

Response:

- A. Positively
- B. Not
- C. Negatively
- D. None

Answer: C

Question: 4

Which of the following questions should be asked on the completion of a process improvement project?

1. Should anything have been done differently?
2. What aspect of the project should be changed if doing it again?
3. What are the customer's requirements and expectations?
4. What were the weakest and strongest points?

Response:

- A. 1, 2, 3
- B. 1, 2, 4
- C. 1, 3, 4
- D. 2, 3, 4

Answer: B

Question: 5

As a standard for a process to be at the 6 Sigma quality level, it must have?

Response:

- A. $C_p \& C_{pk} > 1.5$
- B. $C_p \& C_{pk} > 2$
- C. $C_p > 1.5 \& C_{pk} > 2.0$
- D. $C_p > 2.0 \& C_{pk} > 1.5$

Answer: B

Question: 6

Process Capability is a function of which of these?

Please choose the correct answer.

Response:

- A. Customer requirements
- B. Process performance
- C. Output over time
- D. All of these answers are correct

Answer: D

Question: 7

What is the Range (R) of the data set: 2, 5, 6, 9, 8, 5, 7?

Response:

- A. 7
- B. 5
- C. 1
- D. 6

Answer: A

Question: 8

Multiple Linear Regressions (MLR) is best used when which of these are applicable?

There are 3 correct answers to this question.

Response:

- A. Non-linear relationships between the inputs X's and output Y
- B. Uncertainty in the slope of the linear relationship between an X and a Y
- C. Relationships between Y (output) and more than one X (Input)
- D. Preventing the use of a Designed Experiment if unnecessary
- E. We assume that the X's are independent of each other

Answer: CDE

Question: 9

The proper functioning of a Visual Factory is dependent upon which of these?

Please choose the correct answer.

Response:

- A. Technically skilled workers
- B. Work space with active 5S
- C. Availability of visual tools
- D. Breakthrough projects

Answer: C

Question: 10

In order for us to determine the performance of our process at the beginning of a LSS project we must gather data on its long term performance in an “as-is” condition. This is commonly referred to as _____?

Response:

- A. Pre-Project Data
- B. Existing Condition
- C. Original Data
- D. Process Baseline

Answer: D

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