



# CSSGB<sup>Q&As</sup>

Six Sigma Green Belt

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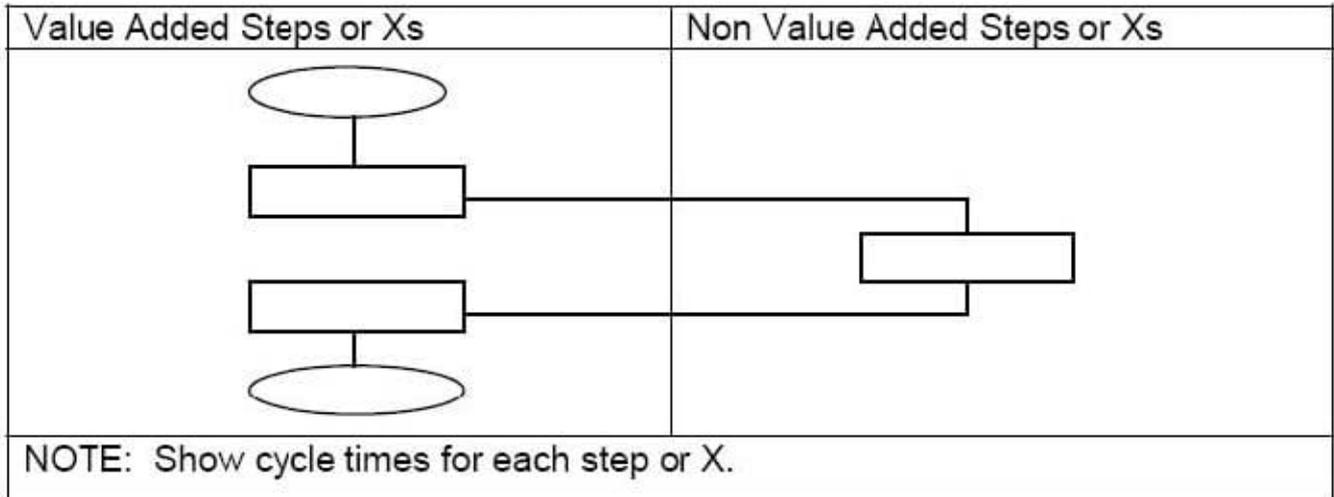




### QUESTION 1

Explain how flowcharts can be constructed to identify and highlight the non-value added steps in a process.

Correct Answer: Check the answer in explanation.



### QUESTION 2

Compute the Process Sigma. Which DPMO should you use? Why?

Correct Answer: Check the answer in explanation.

Process sigma assuming a 1.5 sigma shift in the mean for the empirical DPMO of 11,200 is 3.1 to 3.2.

Process sigma assuming a 1.5 sigma shift in the mean for the theoretical DPMO of 48,000 is 3.7 to 3.8.

Neither DPMO should be used because the process is not stable. A process sigma calculation is not appropriate for this process at this time.

### QUESTION 3

The FMEA is used to analyze potential source of defects in the process of interest and stands for \_\_\_\_\_.

- A. Failure Measure for Effective Automation
- B. Failure Modes and Effect Analysis
- C. Focused Mental Efforts Analyze
- D. Failed Manufacturing Efforts Analyzed



Correct Answer: B

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#### QUESTION 4

Inferential Statistics is largely about Significance. There are both Practical and \_\_\_\_\_ Significance to consider during an analysis of data in a Lean Six Sigma project.

- A. Problematic
- B. Impractical
- C. Usable
- D. Statistical

Correct Answer: D

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#### QUESTION 5

Explain the function of control charts in the Control phase of the DMAIC model.

Correct Answer: Control charts are important in the Control Phase of the DMAIC model because they can be used to monitor stability of the Xs and the CTQs. Also, control charts promote process monitoring and work towards the elimination of mass inspection methods.

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#### QUESTION 6

If a Histogram displays two peaks the distribution would likely be \_\_\_\_\_.

- A. Transformed
- B. Multi-skewed
- C. Bimodal
- D. Bi-attribute

Correct Answer: C

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#### QUESTION 7

Countable observations, for example, number of defects.

- A. Sample Size
- B. Attribute Data



C. Discrete Data

D. Variable Data

Correct Answer: C

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### QUESTION 8

Create an operational definition for "12 pound bar" that results in measurement data.

Correct Answer: Check the answer in explanation.

Criteria: Use a digital scale to weigh a bar.

Test: Select a particular bar and put it on the digital scale. Record the digital readout.

Decision: Use bar based on digital readout.

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### QUESTION 9

The Regression Model for an observed value of Y contains the term  $\beta_0$  which represents the Y axis intercept when X = 0.

A. True

B. False

Correct Answer: A

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### QUESTION 10

Which of the following tools is used to translate broad requirements into specific requirements?

A. A quality control plan

B. The theory of constraints (TOC)

C. A critical to quality (CTQ) tree

D. A process flowchart

Correct Answer: C

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### QUESTION 11

The chance of making a right or wrong conclusion.

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- A. Risk
- B. Beta Risk
- C. Alpha Risk
- D. Mode

Correct Answer: A

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#### QUESTION 12

What is the tactic of Six Sigma management in respect to Xs?

Correct Answer: Check the answer in explanation.

- Define vital few Xs
  - Identify level of critical Xs
  - Select best actions needed to implement levels of critical Xs
  - Implement critical Xs and test for best levels of critical Xs that minimize variation in the CTQs
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#### QUESTION 13

Compute the average effect of X3:

- A. +12
- B. -3
- C. 4
- D. +15
- E. none of the above

Correct Answer: B

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#### QUESTION 14

Compute the actual DPMO from the empirical data.

Correct Answer: Check the answer in explanation.

$$DPO = 1 - RTY = 1 - 0.952 = 0.048 \quad DPMO = 1,000,000 \times DPO = 1,000,000 \times 0.048 = 48,000 \text{ DPMO}$$

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#### QUESTION 15



When giving instructions to those who will perform a task, the communication process is completed:

- A. When the worker goes to his work station to do the task
- B. When the person giving the instruction has finished talking
- C. When the worker acknowledges these instructions by describing how he/she will perform the task
- D. When the worker says that he/she understands the instructions

Correct Answer: C

The best communication process allows for effective feedback. The most comprehensive feedback from the four choices is answer c.

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