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Six Sigma Green Belt

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QUESTION 1

Which of the following describes poorly functioning teams?

- A. Members act independently without inter-dependency
- B. Objectives are realistically set and met
- C. Team members listen to what is being said
- D. Facts and opinions are distinguished

Correct Answer: A

The key question phrase is "poorly functioning." Answers b, c and d are desirable team characteristics (team members listen well and objectives are realistically set and met and facts and opinions are distinguished). Answer a is a poor characteristic in any team or group. Team members must be able to act both independent and interdependently.

QUESTION 2

In a hypothetical situation, if all within time, piece to piece, and measurement variation were removed from a process, what would be left?

- A. Nothing it would all be eliminated
- B. Inherent process variation
- C. Product spread
- D. Time to time variation

Correct Answer: B

QUESTION 3

SPC charts typically have the most recent data point on the right hand side.

- A. True
- B. False

Correct Answer: A

QUESTION 4

What is the Cycle Time, in seconds, for a process having a Throughput of 7,200 units per hour?

- A. 0.5

B. 2

C. 4

D. 10

Correct Answer: A

QUESTION 5

An advanced flowcharting method, identifying the process input variables "x" and the relationship to the process output variables "y".

A. Statistical Process Control

B. Pareto Chart

C. Scatter Diagram

D. Process Map

Correct Answer: D

QUESTION 6

Explain the purpose of a QC process chart. Draw a QC chart to illustrate your explanation.

Correct Answer: Check the answer in explanation.

The purpose of a QC process chart is to monitor implementation of revised best practice method.

| PLAN DO | | STUDY | | | ACT | |
|--|--|-----------------------|----------------------|---|--|--|
| Flowchart | | CTOs and Xs | | | Corrective action | |
| Revised best practice flowchart for doing the process. | Show how revised step should be done or provide a reference that describes the revised step. | Identify CTOs and Xs. | Specify CTOs and Xs. | Describe CTOs and Xs should be monitored (e.g., on chart) Who should monitor? | State corrective actions to prevent future problem. | Formalize procedures for operating existing methods that deal with problems. |
| | | | | | What should be done with defective output? Who should do it? | Who needs what data to improve the best practice methods? |
| | | | | | Update the training process to include revised best practice. | |
| | | | | | Update training material. | |
| | | | | | Use statistical methods to determine if and when an employee reaches a state of statistical control for a particular training program. | |

QUESTION 7

State the LSL and USL for the above process.

Correct Answer: LSL = 5.95 and USL = 6.05

QUESTION 8

Flowcharting of activities and systems is most helpful in detecting:

- A. Inappropriate use of resources
- B. Deficiencies in the organizational structure
- C. FMEA risk areas
- D. Improper use of statistical methods

Correct Answer: A

QUESTION 9

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.

QUESTION 10

When looking at a distribution graph, the Mean is defined as the _____.

- A. Average based on the sample size
- B. Aggression measured
- C. Total sample size
- D. Measurement based off a quarter of the sample size

Correct Answer: A

QUESTION 11

What type of control chart should be used to study the above data?

Correct Answer: c-chart

QUESTION 12

The probability of accepting the alternative hypothesis (H1) when the null hypothesis (Ho) is true.

- A. Beta Risk
- B. Alpha Risk
- C. Attribute Data
- D. Random Experiment

Correct Answer: B

QUESTION 13

Compute the average effect of the interaction between X1 and X3.

- A. -2
- B. +1/2
- C. +3
- D. 1/3
- E. none of the above

Correct Answer: B

QUESTION 14

What type of data is in the above matrix?

Correct Answer: Measurement data

QUESTION 15

The Six Sigma methodology had its origins at _____ in the late 1980\'s when William Smith coined the name for quality related work being done there.

- A. Motorola
- B. Allied Signal
- C. General Electric
- D. Honeywell

Correct Answer: A

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