

Exam : 310-600

**Title : SUN SIGMA BLACK BELT
CERTIFICATION**

Version : DEMO

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1. In two months, there are 200 defects in 40 units processed. If each unit has 25 opportunities, what is the process DPMO?

- A. 200,000
- B. 400,000
- C. 800,000
- D. 1,000,000

Correct: A

2. Which of the following are NOT common pitfalls to the Sun Shot process?

- A. Multiple champions
- B. Too little time allotted
- C. Poor action item accountability
- D. Weak sponsorship

Correct: A

3. What is the purpose of a pilot?

- A. To analyze a process and determine the source of defects
- B. To test a solution on a small or limited scale
- C. To implement a compromised solution when true consensus cannot be reached
- D. To collect baseline data from an existing process

Correct: B

4. Which tool is used to evaluate process variation over time?

- A. Pie chart
- B. Scatter plot
- C. Individuals chart
- D. Pareto Chart

Correct: C

5. What should be included in a good problem/opportunity statement?

- A. A description of the causes of the problem
- B. A statement of the project improvement goal
- C. An assignment of responsibility for the problem
- D. The severity of the problem

Correct: D

6. A project charter should be:

- A. Treated by the team as a fixed contract to be changed only by approval of 51% of the team
- B. Treated as a living document which will evolve as new information is discovered
- C. Written in precise technical language
- D. A brief document 2-3 pages in length

Correct: B

7. Which tool is best for illustrating possible causes for an effect?

- A. QFD
- B. Fishbone diagram
- C. Process flowchart
- D. Histogram

Correct: B

8. Which of the following is NOT a benefit associated with control charts?

- A.They demonstrate process performance relative to customer specifications
- B.They demonstrate stability and predictability of a process over time
- C.They show parameter performance, mean, and control limits
- D.They offer early warning of possible problems

Correct:A

9.Which statement is a good guideline for brainstorming?

- A.Keep the list of ideas manageable by allowing each participant a set number of contributions
- B.Establish the objective prior to the brainstorming session
- C.Focus on idea quality, rather than quantity
- D.Provide a familiar venue for the process

Correct:B

10.A factorial 2-level DOE does NOT:

- A.Confirm possible critical Xs
- B.Confirm design parameter impacts on Ys
- C.Confirm causes identified by hypothesis tests
- D.Confirm best robust design

Correct:D

11.Which is the best tool to show a quantitative comparison of the frequency of occurrence for different failure modes?

- A.QFD
- B.Individuals chart
- C.Pareto chart
- D.Scatter diagram

Correct:C

12.What is the best use for the ANOVA test?

- A.To complete a least squares regression fit for more than one data set
- B.To determine if several samples belong to the same population relative to their mean
- C.To determine the variance of a non-normal data set
- D.To compare data set normality

Correct:B

13.CAP and DMAIC are useful together since:

- A.The focus of DMAIC is collecting data and the focus of CAP is to make solutions more sustainable
- B.The focus of CAP is collecting data and the focus DMAIC is influencing people to build acceptance
- C.The focus of CAP is to find the best solution for a problem and the focus of DMAIC is to make solutions sustainable
- D.The focus of DMAIC is to find the best solution for a problem and the focus of CAP is to make solutions sustainable

Correct:D

14.Which statement guarantees no defects?

- A.Z = 6 sigma
- B.The part has been modified so that it physically cannot be put together incorrectly
- C.All sampled data points are within the upper and lower specification
- D.The data histogram is "centered"

Correct:B

15. What is a good use for hypothesis testing during the Analyze phase?

- A. To determine the current process capability
- B. To determine optimum process capability parameters
- C. To confirm the validity of a suspected important factor
- D. To provide a comparison of CTQs to root causes

Correct: C

16. Calculation of DPO requires knowledge of:

- A. The total number of defects and the total number of units
- B. Only the total number of defects
- C. The total number of defects, the total number of units, the number of opportunities per unit and the length of the time period studied
- D. The total number of defects, the total number of units and the number of opportunities per unit

Correct: D

17. Which is NOT a key objective of "Mobilizing Commitment"?

- A. Critical mass must be won over
- B. Employees know exactly how their jobs will change
- C. Key stakeholders support the change
- D. Potential sources of resistance are identified

Correct: B

18. Which of the following is a continuous measure?

- A. Total time required to close a deal
- B. Count of the number of closed deals from new customers
- C. Day of the week a deal is closed
- D. Type of deal closed

Correct: A

19. Which one of the following statements about internal and external customers is true?

- A. Process output that is not paid for only goes to internal customers
- B. External customers should not be privy to project details when working on joint projects
- C. Requirements of internal customers will drive more improvement than requirements of external customers
- D. Internal customers are fellow associates who need the process output to carry out their work

Correct: D

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