

**Exam : SUN 310-600**

**Title : Sun Sigma Black Belt  
Certification Exam**

**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

**Answer: 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

**Answer: 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

**Answer: B**

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

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

**Answer: 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

**Answer: 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

**Answer: B**

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

A. QFD

B. Fishbone diagram

C. Process flowchart

D. Histogram

**Answer: 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

**Answer: 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

**Answer: 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

**Answer: 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

**Answer: 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

**Answer: 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

**Answer: 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"

**Answer: 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

**Answer: 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

**Answer: 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

**Answer: 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

**Answer: 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

**Answer: D**

20. What is the most likely distribution that you would observe if your data came from two different sources?

- A. Normal
- B. Asymmetrical
- C. Bimodal
- D. No such distribution

**Answer: C**



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