



Exam Code: 310-600

Exam Name: SUN SIGMA BLACK BELT CERTIFICATION
EXAM

Vendor: Sun

Version: DEMO

Part: A

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 Answers: 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 Answers: 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 Answers: 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 Answers: 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 Answers: 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 Answers: B

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

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

Correct Answers: 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 Answers: 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 Answers: 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 Answers: 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 Answers: 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 Answers: 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 Answers: 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 Answers: 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 Answers: 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 Answers: 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 Answers: 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 Answers: 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 Answers: 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

Correct Answers: C