

Lean Six Sigma Black Belt Professional Certification

Sample Exam V022023

- 1. Which of the given options best describes the definition of Lean? (Select the best answer)
 - a. A short-term improvement philosophy
 - b. A set of tools to improve processes
 - c. An aid in the improvement cycle
 - d. A set of quality tools
- 2. Select the best definition for variation
 - a. Measurement of materials
 - b. Measurement of process inputs
 - c. Measurement of process outputs
 - d. Dispersion of data from the mean
- 3. What is waste?
 - a. Everything included in the process for which the customer will not pay
 - b. All that is included in the process and the customer is willing to pay for
 - c. Perform on processes
 - d. Perform constant measurements
- 4. What is added value?
 - a. Necessary activity, although it does not generate value
 - b. Activity to standardize processes
 - c. Any activity that is carried out to meet customer requirements
 - d. Generate competitive results
- 5. Select the options that correspond to Lean waste.
 - a. Motion
 - b. Overprocessing
 - c. Integrations
 - d. Transportation
 - e. Procurement

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- 6. When is DMADV used?
 - a. When an improvement of a current process is required
 - b. When it is required to redesign an entire process or design a new one
 - c. When process standardization is required
 - d. When you want to be ISO certified
- 7. The projects can be classified according to their level of difficulty
 - a. True
 - b. False
- 8. Select the possible difficulty levels of a project
 - a. Chaotic
 - b. Suitable
 - c. Complex
 - d. Commercial
- 9. With which tool can I categorize customer-critical features?
 - a. FMEA
 - b. CTQ
 - c. Tree Diagram
 - d. QFD
- 10. At what stage of the improvement cycle is the decision matrix used?
 - a. Define
 - b. Analyze
 - c. Measure
 - d. Control
- 11. What types of variables exist?
 - a. Attributes-Features
 - b. Continuous Discrete
 - c. Value-No value
 - d. Discrete Only



- 12. What tool would you use to ensure the reliability of your measurement systems?
 - a. CTQ
 - b. Box Plot
 - c. QFD
 - d. MSA
 - e. None of the above
- 13. What tool would you use to evaluate customer requirements vs. the final characteristics of a product?
 - a. House of quality
 - b. Voice of the Customer
 - c. Process Capability Analysis
 - d. SWOT
- 14. Gage R&R is used to measure the bias of measurement systems.
 - a. True
 - b. False
- 15. Statistically determining whether there are differences in outputs between two or more processes is part of the results of:
 - a. Hypothesis test
 - b. ANOVA
 - c. Regression
 - d. A and B are correct
 - e. B and C are correct
- 16. Failure mode and effect analysis is used in the phase of:
 - a. Measure
 - b. Check
 - c. Analyze
 - d. None of the above
- 17. Tool to identify the causes related to a problem:
 - a. Pareto diagram
 - b. Fish Diagram
 - c. Scatter diagram
 - d. Tree Diagram



- 18. Select the tools used in the Verify Phase
 - a. Control plan
 - b. Graphic C
 - c. Prioritization matrix
 - d. Graphic P
 - e. Scatter Chart
- 19. Helps to build experimental situations
 - a. Pareto diagram
 - b. Distributions
 - c. House of quality
 - d. CTQ
- 20. It is used to predict the behavior of a process according to its variation.
 - a. MSA
 - b. Regression
 - c. Process capability analysis
 - d. Correlation
- 21. They are the specialists in solving problems by identifying their root cause and support the whole team.
 - a. Champion
 - b. Green Belt
 - c. White Belt
 - d. Black Belt
- 22. Manage change at the executive level
 - a. Master Black Belt
 - b. Yellow Belt
 - c. Black Belt
 - d. Green Belt
- 23. When is DMAIC used?
 - a. When an improvement of a current process is required
 - b. When it is required to redesign an entire process or design a new one
 - c. When operators do not have a standardized job.
 - d. When you want to be ISO certified



- 24. At what stage of the DMADV cycle are processes standardized?
 - a. Measure
 - b. Check
 - c. Analyze
 - d. Standardize
- 25. At what stage of the DMADV cycle are the best solutions reviewed?
 - a. Check
 - b. Design
 - c. Measure
 - d. Analyze
- 26. Select the answers that you consider should be the objectives of a Project Manager
 - a. That the project complies with the defined schedule
 - b. Customer satisfaction
 - c. Monitoring the FMEA
 - d. Measuring variations
 - e. All of the above
- 27. Select the option that represents the correct order of a project cycle.
 - a. Initiation, Planning, Selection, Execution, Control, Closure
 - b. Initiation, Planning, Selection, Execution, Closing, Controlling
 - c. Selection, Initiation, Planning, Execution, Monitor & Control, Closure
 - d. Planning, Selection, Execution, Closing, Controlling



ANSWERS

3. 4. 5. 6. 7. 8.	B A A,	B, D C
	B	
10.		
11.		
12.		
13.		
14.		
15.	D	
16.	С	
17.	В	
		B, D
19.		
20.	С	
21.		
22.		
23.	А	
24.		
25.	В	
26.	А,	В
27.	С	

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