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Certified Six Sigma Black Belt Master
VS-1246

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Certification Code VS-1246

Why should one take this certification?

In today's competitive environment, every individual is in a race to achieve success in one's career for which one tends to stand out from the crowd. To be different is the key factor that ignites to take challenges. Following that path, Six Sigma Black Belt Master is one of the integrated program of learning. It creates a huge opportunity with respect to market demand and supply. It has been observed over a decade that demand for Six Sigma Black Belt Master is getting higher and higher and nowadays special positions are being created for certified professionals. It is driving the culture of organizations towards adaptation of good system. It also helps in increasing salary which of course is a key parameter for motivation and create leaders ready to take much higher responsibilities and challenges. Six Sigma is a management philosophy that was developed by Motorola in 1986. Now in a vast 'brand' in the business world, Six Sigma is a problem solving, high-performance approach to analyze the cause of variation in process and to find their solution.

Who will benefit from taking this certification?

Nowadays almost every industry is ready to get Six Sigma Black Belt Master certified professionals as it creates the culture towards improvement. Professionals in Quality, Management including project managers, Team-Leaders, Engineers are ideal candidates for this course. They are the ones who are in direct contact with bulk level data like customer rejections, manufacturing process controls, software etc. It has a systematic structure of approach like implementing DMAIC with Define "D", Measure "M", Analysis "A", Improvement "I" & Control "C".

Test Details

- **Duration:** One hours
- **No. of questions:** 50
- **Maximum marks:** 50
- **Passing marks:** 25 (50%)

There is no negative marking in this module.

Fee Structure

Rs. 9,999/- (Excludes taxes)*

*Fees may change without prior notice, please refer http://www.vskills.in for updated fees

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1. Six Sigma Black Belt OVERVIEW: An Impression
   1.1. Continuous Improvement and Continual Improvements
   1.2. Assortment of Black Belt Projects
   1.3. Lean Management
   1.4. Lean concepts in detail
   1.5. What is a Six Sigma?
   1.6. Origination, Features, significance, roles and responsibilities
   1.7. What is a Lean Six Sigma Black Belt?
   1.8. Features, significance, roles and responsibilities
   1.9. Difference and approach towards success

2. DEFINE Phase
   2.1. Significance and Approach
   2.2. Business Hurdles and Requirements
   2.3. Rudiments like
      - Voice of Customer "VOC"
      - Voice of Process "VOP"
      - Voice of Business "VOB"
   2.4. Transparency on above subject – Exercise to Understand
   2.5. Baseline Performance
   2.6. Project Charter
   2.7. SIPOC approach
   2.8. Process Mapping
   2.9. Kano Model
   2.10. Responsibility Accountability Consulting and Informed – "RACI" matrix
   2.11. People Management – Project associated Persons, Roles and Responsibilities Project Expectations – Scheduling and Deliverables

3. MEASURE Phase
   3.1. Significance and Approach
   3.2. Significance of Right measurements
   3.3. Prioritization Matrix
   3.4. PFMEA: Potential failure Mode & Effect Analysis
   3.5. Data Type
   3.6. Stratification
   3.7. Measure of Central Tendency & Dispersion
   3.8. Measurement System Analysis & Gage R&R
   3.9. Data Understanding
   3.10. Time Plots/ Run Charts

3.11. Diagrams, Plots & Charts (Control Charts, Frequency Plots, Pareto Diagrams)
3.12. Process Capabilities (Cp, Cpk, Pp, Ppk)
3.13. Binomial Distributions & Poisson Distributions
3.14. Sigma Calculation & Ratings
3.15. Summary

4. ANALYSIS Phase

4.1. Cause & Effect Diagram
4.2. Five Why Analysis
4.3. Tree Diagram & Affinity Diagram
4.4. Regression
4.5. Multi-Vari Analysis
4.6. Normality Test
4.7. R-squared test
4.8. Hypothesis testing
4.9. Chi-Square Test
4.10. Non Parametric Test
4.11. Wilcoxon Signed Rank Test
4.12. Kruskal Wallis Test
4.13. Analysis of Variance "ANOVA"
4.14. Confidence Intervals
4.15. T-Test "sample 1 & 2"

5. IMPROVE Phase

5.1. Classification & Regression Trees
5.2. Design of Experiments "DoE"
5.3. 2 level Full Factorial Design
5.4. 3 level Full Factorial Design
5.5. Taguchi Designs
5.6. Orthogonal Designs
5.7. Parameter design

6. CONTROL Phase

6.1. Check lists
6.2. Quality Control plan
6.3. Process Change Management
6.4. Standardization
6.5. Documentation
6.6. Monitoring - Ongoing Project
6.7. Poka-Yoke
6.8. Training – Planning & Execution
6.9. Central Limit Theorem

6.10. Charts for control
6.11. Kaizen
6.12. 5 S Principles & Implementation
6.13. Statistical Process Control

Sample Questions

1. In reference to Kano Model, which of the following statement/statements are False?

A. It is used in a DFSS Project & works with Quality Function Deployment.
B. It is used before capturing Voice of Customer (VOC).
C. It is used in Measure Phase of DMAIC
D. Both B & C

2. What is the primary purpose of FMEA?

A. It helps to prevent failures from occurring.
B. Identifies the effects of the failure.
C. Evaluates the risk associated with Defects.
D. All of the above

3. _____ is a graphical representation of the distribution of data in form of tabulated Frequencies.

A. Pareto charts
B. Time charts
C. Histogram
D. Bar charts

4. What are the features of a TO-BE process map?

A. Display the potential future state of a process after it has been analyzed for waste reduction.
B. Shows the results of streamlining efforts by removing rework loops, excess processing and other non-value adding steps.
C. The resulting map has fewer steps than the presenting "As Is" or current map of the process.
D. All of the above

5. What is Standardization?

A. It is used as a method to improve efficiencies in processes that have great variation.
B. It helps in sustaining the process
C. It is used to maximize compatibility & quality of the process.
D. All of the above

Answers: **1 (D), 2 (D), 3 (C), 4 (D), 5 (D)**

Certifications

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- Certified GAAP Accounting Standards Professional
- Certified Financial Risk Management Professional
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- Certified Treasury Market Professional
- Certified Wealth Manager

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- Certified Cloud Computing Professional

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- Certified Inbound Marketing Professional
- Certified Digital Marketing Master

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- Certified HR Stafffing Manager
- Certified Human Resources Manager
- Certified Performance Appraisal Manager

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- Certified Six Sigma Black Belt Professional
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- Certified SEO Professional
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