



An UASL UK Certified Institute

Name of Exam: - Six Sigma Master Black Belt Certification

Duration: - 90 Minutes

Type: - Objectives

Methodology: - It's a 90 minutes objective based examination where you have one question and multiple choices in answers. You have to click or tick the right choice out of multiple choices! Every right click or tick gives you one mark each.

Passing: - You need to score at least 50 Marks out of 100 Questions to clear the exam.

Grading: - The Grading system works as follows: -

If you score from 50 to 59 Marks, you get B Grade.

If you score from 60 to 74 Marks, then you get A Grade.

If you score from 75 to 100 Marks, then you get A+ Grade.

The Grade will also be mentioned on your certificate.

Body of Knowledge: -

This Exam will have questions from following modules: -

- 1) Introduction to Six Sigma**
- 2) Six Sigma Management**
- 3) Six Sigma Calculations & Statistics**
- 4) Six Sigma Methodology**
- 5) STATISTICS MODULE**
- 6) METHODOLOGY MODULE**



An UASL UK Certified Institute

7) SIX SIGMA PROJECT MANAGEMENT MODULE

8) INFORMATION MODULE

9) Organization-wide Planning and Implementation

10) Cross Cultural Responsibilities

11) Training and Mentoring

The Detailed Content is as follows:-

1) Introduction to Six Sigma Module

- a) What is Quality?
- b) Evolution of Quality Function
- c) What is Six Sigma
- d) SIX SIGMA – Principles & Key Themes
- e) Terminologies in Six Sigma
- f) Quality Control v/s Quality Assurance
- g) ISO v/s Six Sigma

2) Six Sigma Management Module

- a) Voice of Customer (VOC)
- b) Customer Needs (SN, UnN & D)
- c) Poka Yoke (RCO & ICD)
- d) Traditional Management v/s Modern Management



An UASL UK Certified Institute

- e) Defining QCS Goals (Quality , Cost, Schedule)
- f) Cost of Quality (COQ)
- g) Value Stream Process Mapping (RVA, BVA, NVA)

3) Six Sigma Calculations & Statistics Module

- a) Data
- b) Seven Tools of Quality
- c) Control Chart
- d) Short Term Process Capability (Cp)
- e) Long Term Process Capability(Cpk)
- f) Sigma Level Calculation for Non Variable Data
- g) Risk Management - (FMEA)

4) Six Sigma Methodology Module

- a) Problem Solving Methodology (DMAIC)
- b) Define
- c) Measure
- d) Analyze
- e) Improve
- f) Control



An UASL UK Certified Institute

5) STATISTICS MODULE

- a) Descriptive Statistics
- b) Data Distribution (Skewness & Kurtosis)
- c) Box & Whisker Plot
- d) Inferential Statistics
- e) Confidence Intervals
- f) Hypothesis Testing
- g) ANOVA
- h) Regression Analysis
- i) Control Charts
- j) Statistical Process Control Application Details

6) METHODOLOGY MODULE

- a) Design for Six Sigma (DFSS)
- b) Pugh Matrix
- c) Quality Functional Deployment (QFD)
- d) VOC – Ethnography
- e) Kano Model
- f) CT Matrix
- g) Design FMEA
- h) Process FMEA



An UASL UK Certified Institute

- i) DMADV Overview
- j) Design of Experiments (DOE)
- k) SIRPORC Diagram

7) SIX SIGMA PROJECT MANAGEMENT MODULE

- a) Selecting the Right Projects
- b) Six Sigma Project Templates
- c) The DMAIC Process
- d) Balanced Scorecard
- e) Benchmarking Methodologies
- f) Measurement System Analysis
- g) Theory of Constraints
- h) Project Ideas
- i) Project Execution
- j) Project Management
- k) Project Infrastructure
- l) Tools for Project financials.

8) INFORMATION MODULE

- a) Information on Quality Gurus
- b) Deming's 14 points for Management
- c) Crosby's 4 Absolutes of Quality
- d) History of Quality Management



An UASL UK Certified Institute

e) MALCOLM BALBRIDGE NATIONAL QUALITY AWARD

9) Organization-wide Planning and Implementation

a) Developing Strategic plan

b) Aligning Strategic plan with organizational goals

c) Implementation of six sigma projects

d) Improvement Opportunities

e) Developing Priority Index for Six Sigma Projects

f) Developing Metrics for Organizational performance

10) Cross Cultural Responsibilities

a) Data Collection Culture

b) Internal Cultural Challenges

c) Responsibilities of Leadership and Executives

11) Training and Mentoring Skills

a) Training Design and Delivery Skills

b) Mentoring Responsibilities

Post Exam: - All the participants who pass the exam with 50 or more marks will be given a certificate stating " Certified Six Sigma Master Back Belt", which he can use in upgrading his resume or on job portals or on sites like LinkedIn, etc.



An UASL UK Certified Institute

Validity: - This Certificate has lifelong validity and you're a Certified Master Six Sigma Black Belt for lifetime, once you clear the examination with 50 or more marks.

How to Apply: - All you have to do is visit our website's exam section for complete details on the same, including details on fees and eligibility criteria.