

IASSC ICBB

IASSC LEAN SIX SIGMA BLACK BELT CERTIFICATION QUESTIONS & ANSWERS

Exam Summary – Syllabus – Questions

ICBB

IASSC Certified Lean Six Sigma Black Belt

150 Questions Exam – 580/750 Cut Score – Duration of 240 Minutes

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Know Your ICBB Certification Well:

The ICBB is best suitable for candidates who want to gain knowledge in the IASSC Business Process Improvement. Before you start your ICBB preparation you may struggle to get all the crucial Lean Six Sigma Black Belt materials like ICBB syllabus, sample questions, study guide.

But don't worry the ICBB PDF is here to help you prepare in a stress free manner.

The PDF is a combination of all your queries like-

- What is in the ICBB syllabus?
- How many questions are there in the ICBB exam?
- Which Practice test would help me to pass the ICBB exam at the first attempt?

Passing the ICBB exam makes you IASSC Certified Lean Six Sigma Black Belt. Having the Lean Six Sigma Black Belt certification opens multiple opportunities for you. You can grab a new job, get a higher salary or simply get recognition within your current organization.

IASSC ICBB Lean Six Sigma Black Belt Certification Details:

Exam Name	IASSC Certified Lean Six Sigma Black Belt
Exam Code	ICBB
Exam Fee	USD \$395
Exam Duration	240 Minutes
Number of Questions	150
Passing Score	580/750
Format	Multiple Choice
Schedule Exam	Book Your Exam
Sample Questions	IASSC ICBB Exam Sample Questions and Answers
Practice Exam	IASSC Certified Lean Six Sigma Black Belt Practice Test

ICBB Syllabus:

Define Phase	
The Basics of Six Sigma	<ul style="list-style-type: none"> - Meanings of Six Sigma - General History of Six Sigma & Continuous Improvement - Deliverables of a Lean Six Sigma Project - The Problem Solving Strategy $Y = f(x)$ - Voice of the Customer, Business and Employee - Six Sigma Roles & Responsibilities
The Fundamentals of Six Sigma	<ul style="list-style-type: none"> - Defining a Process - Critical to Quality Characteristics (CTQ's) - Cost of Poor Quality (COPQ) - Pareto Analysis (80:20 rule) - Basic Six Sigma Metrics <ul style="list-style-type: none"> a. including DPU, DPMO, FTY, RTY Cycle Time; deriving these metrics
Selecting Lean Six Sigma Projects	<ul style="list-style-type: none"> - Building a Business Case & Project Charter - Developing Project Metrics - Financial Evaluation & Benefits Capture
The Lean Enterprise	<ul style="list-style-type: none"> - Understanding Lean - The History of Lean - Lean & Six Sigma - The Seven Elements of Waste <ul style="list-style-type: none"> a. Overproduction, Correction, Inventory, Motion, Overprocessing, Conveyance, Waiting. - 5S <ul style="list-style-type: none"> a. Straighten, Shine, Standardize, Self-Discipline, Sort
Measure Phase	
Process Definition	<ul style="list-style-type: none"> - Cause & Effect / Fishbone Diagrams - Process Mapping, SIPOC, Value Stream Map - X-Y Diagram - Failure Modes & Effects Analysis (FMEA)
Six Sigma Statistics	<ul style="list-style-type: none"> - Basic Statistics - Descriptive Statistics - Normal Distributions & Normality - Graphical Analysis
Measurement System Analysis	<ul style="list-style-type: none"> - Precision & Accuracy - Bias, Linearity & Stability - Gage Repeatability & Reproducibility - Variable & Attribute MSA

Process Capability	<ul style="list-style-type: none"> - Capability Analysis - Concept of Stability - Attribute & Discrete Capability - Monitoring Techniques
Analyze Phase	
Patterns of Variation	<ul style="list-style-type: none"> - Multi-Vari Analysis - Classes of Distributions
Inferential Statistics	<ul style="list-style-type: none"> - Understanding Inference - Sampling Techniques & Uses - Central Limit Theorem
Hypothesis Testing	<ul style="list-style-type: none"> - General Concepts & Goals of Hypothesis Testing - Significance; Practical vs. Statistical - Risk; Alpha & Beta - Types of Hypothesis Test
Hypothesis Testing with Normal Data	<ul style="list-style-type: none"> - 1 & 2 sample t-tests - 1 sample variance - One Way ANOVA a. Including Tests of Equal Variance, Normality Testing and Sample Size calculation, performing tests and interpreting results.
Hypothesis Testing with Non-Normal Data	<ul style="list-style-type: none"> - Mann-Whitney - Kruskal-Wallis - Mood's Median - Friedman - 1 Sample Sign - 1 Sample Wilcoxon - One and Two Sample Proportion - Chi-Squared (Contingency Tables) a. Including Tests of Equal Variance, Normality Testing and Sample Size calculation, performing tests and interpreting results.
Improve Phase	
Simple Linear Regression	<ul style="list-style-type: none"> - Correlation - Regression Equations - Residuals Analysis
Multiple Regression Analysis	<ul style="list-style-type: none"> - Non- Linear Regression - Multiple Linear Regression - Confidence & Prediction Intervals - Residuals Analysis - Data Transformation, Box Cox

Designed Experiments	<ul style="list-style-type: none"> - Experiment Objectives - Experimental Methods - Experiment Design Considerations
Full Factorial Experiments	<ul style="list-style-type: none"> - 2k Full Factorial Designs - Linear & Quadratic Mathematical Models - Balanced & Orthogonal Designs - Fit, Diagnose Model and Center Points
Fractional Factorial Experiments	<ul style="list-style-type: none"> - Designs - Confounding Effects - Experimental Resolution
Control Phase	
Lean Controls	<ul style="list-style-type: none"> - Control Methods for 5S - Kanban - Poka-Yoke (Mistake Proofing)
Statistical Process Control (SPC)	<ul style="list-style-type: none"> - Data Collection for SPC - I-MR Chart - Xbar-R Chart - U Chart - P Chart - NP Chart - Xbar-S chart - CumSum Chart - EWMA Chart - Control Methods - Control Chart Anatomy - Subgroups, Impact of Variation, Frequency of Sampling - Center Line & Control Limit Calculations
Six Sigma Control Plans	<ul style="list-style-type: none"> - Cost Benefit Analysis - Elements of the Control Plan - Elements of the Response Plan

IASSC ICBB Sample Questions:

Question: 1

Special Cause Variation falls into which two categories?

- a) Natural & Unnatural
- b) Short Term & Long Term
- c) Assignable & Pattern
- d) Attribute & Discreet

Answer: c

Question: 2

For a process having an average throughput of 7,200 units per hour, what is the average Cycle Time per unit in seconds?

- a) 0.34
- b) 0.32
- c) 2
- d) 0.42
- e) 0.5

Answer: e**Question: 3**

A two-sample T-test does which of the following?

- a) Compares the medians to determine if sample 1 is statistically difference from sample 2
- b) Subtracts the mean of sample 1 from sample 2 and compares the difference to zero to determine if they are equal
- c) Compares the means to determine if sample 1 is statistically difference from sample 2
- d) test of the difference between two population medians

Answer: c**Question: 4**

Much of the Six Sigma methodology is used to identify and remove causes for _____ .

- a) Process Variation
- b) Material Costs
- c) Excess Inventory
- d) Lost Sales

Answer: a**Question: 5**

An operator is measuring the distance between two points. Which is most likely to be influenced by the operator?

- a) Precision of the measurement
- b) Accuracy of the measurement
- c) Calibration of the instrument
- d) All of these answers are correct

Answer: a, b

Question: 6

A kurtosis of -1,2754 indicates?

- a) Platykurtic (flat with a short tail)
- b) Leptokurtic (peaked with long tails)
- c) Multi-modal (more than one distribution)
- d) Kanban Model

Answer: a

Question: 7

Cost of Poor Quality (COPQ) can be classified as Visible Costs and Hidden Costs. Which of these items is a Visible Cost?

- a) Lost Customer Loyalty
- b) Time Value of Money
- c) Returns
- d) Late Delivery

Answer: c

Question: 8

In a Fishbone Diagram the 6M's stand for Methods, _____, Machine, Man, Mother Nature and Materials.

- a) Measurements
- b) Merger
- c) Management
- d) Medical

Answer: a

Question: 9

Control charts and their limits are the?

- a) Voice of the employee
- b) Voice of the process
- c) Voice of the customer
- d) Voice of the team

Answer: b

Question: 10

Appropriate measures means that measurements are _____.

- a) Representative
- b) Sufficient
- c) Contextual
- d) Relevant
- e) All of these answers are correct

Answer: e

Study Guide to Crack IASSC Lean Six Sigma Black Belt ICBB Exam:

- Getting details of the ICBB syllabus, is the first step of a study plan. This pdf is going to be of ultimate help. Completion of the syllabus is must to pass the ICBB exam.
- Making a schedule is vital. A structured method of preparation leads to success. A candidate must plan his schedule and follow it rigorously to attain success.
- Joining the IASSC provided training for ICBB exam could be of much help. If there is specific training for the exam, you can discover it from the link above.
- Read from the ICBB sample questions to gain your idea about the actual exam questions. In this PDF useful sample questions are provided to make your exam preparation easy.
- Practicing on ICBB practice tests is must. Continuous practice will make you an expert in all syllabus areas.

Reliable Online Practice Test for ICBB Certification

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