IASSC ICBB

IASSC LEAN SIX SIGMA BLACK BELT CERTIFICATION QUESTIONS & ANSWERS

Get Instant Access to Vital Exam Acing Materials | Study Guide | Sample Questions | Practice Test

ICBB

IASSC Certified Lean Six Sigma Black Belt

150 Questions Exam – 70% Cut Score – Duration of 240 minutes

www.ProcessExam.com

Table of Contents

Discover More about the ICBB Certification

Are you interested in passing the IASSC ICBB exam? First discover, who benefits from the ICBB certification. The ICBB is suitable for a candidate if he wants to learn about Business Process Improvement. Passing the ICBB exam earns you the IASSC Certified Lean Six Sigma Black Belt title.

While preparing for the ICBB exam, many candidates struggle to get the necessary materials. But do not worry; your struggling days are over. The ICBB PDF contains some of the most valuable preparation tips and the details and instant access to useful **ICBB study materials just at one click**.

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	70%
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	- 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	- Defining a Process - Critical to Quality Characteristics (CTQ's) - Cost of Poor Quality (COPQ) - Pareto Analysis (80:20 rule) - Basic Six Sigma Metrics a. including DPU, DPMO, FTY, RTY Cycle Time; deriving these metrics
Selecting Lean Six Sigma Projects	- Building a Business Case & Project Charter - Developing Project Metrics - Financial Evaluation & Benefits Capture
The Lean Enterprise	- Understanding Lean - The History of Lean - Lean & Six Sigma - The Seven Elements of Waste a. Overproduction, Correction, Inventory, Motion, Overprocessing, Conveyance, Waiting. - 5S a. Straighten, Shine, Standardize, Self-Discipline, Sort

Measure Phase

Process Definition	- Cause & Effect / Fishbone Diagrams - Process Mapping, SIPOC, Value Stream Map - X-Y Diagram - Failure Modes & Effects Analysis (FMEA)
Six Sigma Statistics	- Basic Statistics - Descriptive Statistics - Normal Distributions & Normality - Graphical Analysis
Measurement System Analysis	- Precision & Accuracy - Bias, Linearity & Stability - Gage Repeatability & Reproducibility - Variable & Attribute MSA
Process Capability	- Capability Analysis - Concept of Stability - Attribute & Discrete Capability - Monitoring Techniques

Analyze Phase

Patterns of Variation	- Multi-Vari Analysis - Classes of Distributions
Inferential Statistics	- Understanding Inference - Sampling Techniques & Uses - Central Limit Theorem
Hypothesis Testing	- General Concepts & Goals of Hypothesis Testing - Significance; Practical vs. Statistical

	- Risk; Alpha & Beta - Types of Hypothesis Test
Hypothesis Testing with Normal Data	- 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	- 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	- Correlation - Regression Equations - Residuals Analysis
Multiple Regression Analysis	- Non- Linear Regression - Multiple Linear Regression - Confidence & Prediction Intervals - Residuals Analysis - Data Transformation, Box Cox
Designed Experiments	- Experiment Objectives - Experimental Methods - Experiment Design Considerations
Full Factorial Experiments	- 2k Full Factorial Designs - Linear & Quadratic Mathematical Models - Balanced & Orthogonal Designs - Fit, Diagnose Model and Center Points
Fractional Factorial Experiments	- Designs - Confounding Effects - Experimental Resolution

Control Phase

Lean Controls	- Control Methods for 5S - Kanban - Poka-Yoke (Mistake Proofing)

Statistical Process Control (SPC)	- 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	- Cost Benefit Analysis - Elements of the Control Plan - Elements of the Response Plan

Broaden Your Knowledge with IASSC ICBB Sample Questions:

Question: 1

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: 2

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: 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

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: 5

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: 6

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: 7

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: 8

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: 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

Avail the Study Guide to Pass IASSC ICBB Lean Six Sigma Black Belt Exam:

- Find out about the ICBB syllabus topics. Visiting the official site offers an idea about the exam structure and other important study resources. Going through the syllabus topics help to plan the exam in an organized manner.
- Once you are done exploring the **ICBB syllabus**, it is time to plan for studying and covering the syllabus topics from the core. Chalk out the best plan for yourself to cover each part of the syllabus in a hassle-free manner.
- A study schedule helps you to stay calm throughout your exam preparation. It should contain your materials and thoughts like study hours, number of topics for daily studying mentioned on it. The best bet to clear the exam is to follow your schedule rigorously.
- The candidate should not miss out on the scope to learn from the ICBB training. Joining the IASSC provided training for ICBB exam helps a candidate to strengthen his practical knowledge base from the certification.
- Learning about the probable questions and gaining knowledge regarding the exam structure helps a lot. Go through the **ICBB sample questions** and boost your knowledge
- Make yourself a pro through online practicing the syllabus topics. ICBB practice tests would guide you on your strengths and weaknesses regarding the syllabus topics. Through rigorous practicing, you can improve the weaker sections too. Learn well about time management during exam and become confident gradually with practice tests.

Career Benefits:

Passing the ICBB exam, helps a candidate to prosper highly in his career. Having the certification on the resume adds to the candidate's benefit and helps to get the best opportunities.

Here Is the Trusted Practice Test for the ICBB Certification

ProcessExam.Com is here with all the necessary details regarding the ICBB exam. We provide authentic practice tests for the ICBB exam. What do you gain from these practice tests? You get to experience the real exam-like questions made by industry experts and get a scope to improve your performance in the actual exam. Rely on ProcessExam.Com for rigorous, unlimited two-month attempts on the **ICBB practice tests**, and gradually build your confidence. Rigorous practice made many aspirants successful and made their journey easy towards grabbing the IASSC Certified Lean Six Sigma Black Belt.

Start Online Practice of ICBB Exam by Visiting URL

https://www.processexam.com/iassc/iassc-certified-lean-six-sigma-black-belt-icbb