IASSC ICGB

IASSC LEAN SIX SIGMA GREEN BELT CERTIFICATION QUESTIONS & ANSWERS

Exam Summary – Syllabus –Questions

ICGB

IASSC Certified Lean Six Sigma Green Belt

100 Questions Exam – 385/500 Cut Score – Duration of 180 minutes

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Know Your ICGB Certification Well:

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

But don't worry the ICGB 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 ICGB syllabus?
- How many questions are there in the ICGB exam?
- Which Practice test would help me to pass the ICGB exam at the first attempt?

Passing the ICGB exam makes you IASSC Certified Lean Six Sigma Green Belt. Having the Lean Six Sigma Green 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 ICGB Lean Six Sigma Green Belt Certification Details:

Exam Name	IASSC Certified Lean Six Sigma Green Belt
Exam Code	ICGB
Exam Fee	USD $295
Exam Duration	180 Minutes
Number of Questions	100
Passing Score	70%
Format	Multiple Choice
Schedule Exam	**Book Your Exam**
Sample Questions	**IASSC ICGB Exam Sample Questions and Answers**
Practice Exam	**IASSC Certified Lean Six Sigma Green Belt Practice Test**

ICGB 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 and 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

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 - CuSum Chart - EWMA Chart - Control Chart Anatomy
Six Sigma Control Plans	- Cost Benefit Analysis - Elements of the Control Plan - Elements of the Response Plan

IASSC ICGB Sample Questions:

Question: 1

If a Histogram displays two peaks the distribution would likely be _____.

 a) Transformed
 b) Multi-skewed
 c) Bimodal
 d) Bi-attribute

Answer: c

Question: 2

Which role is responsible for approving completed projects?

 a) Lean Facilitator
 b) Master Black Belt
 c) Coach
 d) Champion

Answer: d

Question: 3

As we calibrate our Measurement System to assure accurate data we frequently encounter Bias which is the _____ of a measured value from the _____ value.

    a) Spread, Mean of the population
    b) Deviation, hoped for
    c) Deviation, true
    d) Spread, idea

Answer: c

Question: 4

When analyzing a data set we frequently graph one metric as a function of another. If the slope of the Correlation line is -2.5 we would say the two metrics are _____ correlated?

    a) Positively
    b) Not
    c) Negatively
    d) None

Answer: c

Question: 5

After a Belt has put data through the smoothing process which chart would be used to look for trends in the data?

    a) Moving Average Chart
    b) Multi-Vari Chart
    c) X bar Chart
    d) Pareto Chart

Answer: a

Question: 6

To draw inferences about a sample population being studied by modeling patterns of data in a way that accounts for randomness and uncertainty in the observations is known as _____.

    a) Influential Analysis
    b) Inferential Statistics
    c) Physical Modeling
    d) Sequential Inference

Answer: b

Question: 7

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: 8

All of the following are benefits of control plans except?

a) Coordinates ongoing team and individual involvement
b) Standardizes processes and work procedures
c) Ensures compliance with changes through auditing and corrective actions
d) Measures process performance, stability and capability
e) Plans actions to mitigate possible out-of-control conditions
f) Helps to analyze and eliminate potential x's

Answer: f

Question: 9

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: 10

As a standard for a process to be at the 6 Sigma quality level, it must have?

a) Cp & Cpk > 1.5
b) Cp & Cpk >2
c) Cp >1.5 & Cpk >2.0
d) Cp >2.0 & Cpk >1.5

Answer: b

Study Guide to Crack IASSC Lean Six Sigma Green Belt ICGB Exam:

- Getting details of the ICGB 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 ICGB 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 ICGB 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 ICGB 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 ICGB practice tests is must. Continuous practice will make you an expert in all syllabus areas.

Reliable Online Practice Test for ICGB Certification

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