

LEAN SIX SIGMA GREEN BELT WITH MINITAB CERTIFICATION

As per International Standards



UNICHROME

Unichrone Training **Advantages**

- ✓ 5 Day Interactive Instructor –led Online Classroom or Group Training
- ✓ Course study materials designed by subject matter experts
- ✓ Mock Tests for Better Understanding and Preparation
- ✓ Highly qualified, expert & accredited Master Green Belt trainers with vast experience
- ✓ Course guide accompanied with real-real examples and case studies
- ✓ Industry Best Practices included
- ✓ Globally recognized Certificate provided for Green Belt
- ✓ End-to-end support via phone, mail, and chat
- ✓ This Course is adhered with International Standards



Importance of Lean Six Sigma Green Belt with Minitab Certification



Quality management has become very important in almost every industry. Lean Six Sigma methodology which forms the building blocks of quality management helps professionals in process improvement and quality control. Along with training in Minitab Software, certification in Lean Six Sigma Green Belt will help individuals aspiring to work in the quality management sector.

About Unichrone



We are a professional training institute with an extensive portfolio of professional certification courses. Our training programs are meant for those who want to expand their horizons by acquiring professional certifications across the spectrum. We train small- and medium-sized organizations all around the world, including in USA, Canada, Australia, UK, Ireland and Germany.



Guaranteed Quality



Handpicked Trainers



Global Presence



Online Training Option

**We've trained professionals across
global companies**

PHILIPS

AXCESS
FINANCIAL PRODUCT MANAGEMENT

CLARIANT

AkerSolutions

WÜRTH

baycoat

DUPONT

DASHTI

GlobalSign

Triskele Labs

مصرف الراجحي
Al Rajhi Bank

DHL

ARASCO  **أراسكو**

ELIGIBILITY CRITERIA

- ✓ There are no specified eligibility criteria for registering for the Lean Six Sigma Green Belt Certification with Minitab Training Course in Luanda. Any individual interested in learning about the Lean Six Sigma methodology and Minitab can register for this course.

WHO SHOULD ATTEND

- ✓
 - Quality Managers
 - Management Consultants
 - Project Managers
 - Operations Managers
 - Continuous Improvement Engineers

Lean Six Sigma Green Belt Certification with Minitab Certification

Advantages



CERTIFIES
YOUR TALENT



HELPS
BUILDING
VALUES



GLOBAL
RECOGNITION



PERFECT
EXECUTION



BUILDS
CUSTOMER
LOYALTY



MORE
EMPLOYABILITY
OPTIONS

Syllabus of Lean Six Sigma Green Belt Certification with Minitab Training

Lesson 01 – The Basics Of Six Sigma

1.	Meanings of Six Sigma
2.	General History of Six Sigma & Continuous Improvement
3.	The Problem-Solving Strategy $Y = f(x)$
4.	Voice of the Customer, Business and Employee
5.	Six Sigma Roles & Responsibilities

Lesson 02 – The Fundamentals Of Six Sigma

1.	Defining a Process
2.	Critical to Quality Characteristics (CTQ's)
3.	Cost of Poor Quality (COPQ)
4.	Pareto Analysis (80:20 rule)
5.	Basic Six Sigma Metrics

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Lesson 03 – Selecting Lean Six Sigma Projects

1.	Building a Business Case & Project Charter
2.	Developing Project Metrics
3.	Financial Evaluation & Benefits Capture

Lesson 04 – The Lean Enterprise

1.	Understanding Lean
2.	The History of Lean
3.	The Seven Elements of Waste : Overproduction, Correction, Inventory, Motion, Overprocessing, Conveyance, Waiting.
4.	5S : Sort, Straighten, Shine, Standardize, Self-Discipline

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Lesson 05– Process Definition

1.	Cause & Effect / Fishbone Diagrams
2.	Process Mapping, SIPOC, Value Stream Map
3.	X-Y Diagram
4.	Failure Modes & Effects Analysis (FMEA)

Lesson 06 – Six Sigma Statistics

1.	Basic Statistics
2.	Descriptive Statistics
3.	Normal Distributions & Normality
4.	Graphical Analysis

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Lesson 07 – Measurement System Analysis

1.	Precision & Accuracy
2.	Bias, Linearity & Stability
3.	Gage Repeatability & Reproducibility
4.	Variable & Attribute MSA

Lesson 08 – Process Capability

1.	Capability Analysis
2.	Concept of Stability
3.	Attribute & Discrete Capability
4.	Monitoring Techniques

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Lesson 09 – Patterns Of Variation

1.	Multi-Vari Analysis
2.	Classes of Distributions

Lesson 10 – Inferential Statistics

1.	Understanding Inference
2.	Sampling Techniques & Uses
3.	Central Limit Theorem

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Lesson 11 – Hypothesis Testing

1.	General Concepts & Goals of Hypothesis Testing
2.	Significance; Practical vs. Statistical
3.	Risk; Alpha & Beta
4.	Types of Hypothesis Test

Lesson 12 – Hypothesis Testing With Normal Data

1.	1 & 2 sample t-tests
2.	1 sample variance
3.	One Way ANOVA

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Lesson 13 – Hypothesis Testing With Non-Normal Data

1.	Mann-Whitney
2.	Kruskal-Wallis
3.	Mood's Median
4.	Friedman
5.	Sample Sign
6.	1 Sample Wilcoxon
7.	One and Two Sample Proportion
8.	Chi-Squared (Contingency Tables)

Lesson 14 – Simple Linear Regression

1.	Correlation
2.	Regression Equations
3.	Residuals Analysis

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Lesson 15 – Multiple Regression Analysis

1.	Non- Linear Regression
2.	Multiple Linear Regression
3.	Confidence & Prediction Intervals
4.	Residuals Analysis
5.	Data Transformation, Box Cox

Lesson 16– Lean Controls

1.	Control Methods for 5S
2.	Kanban
3.	Poka-Yoke (Mistake Proofing)

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Lesson 17 – Statistical Process Control (SPC)

1.	Data Collection for SPC
2.	I-MR Chart
3.	Xbar-R Chart
4.	U Chart
5.	P Chart
6.	NP Chart
7.	Xbar-S Chart
8.	CuSum Chart
9.	EWMA Chart
10.	Control Chart Anatomy

Lesson 18 – Six Sigma Control Plans

1.	Cost Benefit Analysis
2.	Elements of the Control Plan
3.	Elements of the Response Plan

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Lesson 19 – Introduction to Minitab

1.	Overview of Minitab
2.	Introducing the Worksheet Structure
3.	Data Window Uses
4.	Overview of Menu Bar

Lesson 20 – Import/Export of Data

1.	Data transfer from Excel to Minitab
2.	Transfer Minitab Output to PPT and Word format

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Lesson 21 – Central Tendency

1.	Types of Data
2.	Measures of Central Tendency

Lesson 22 – Graphical Analysis

1.	Bar Chart
2.	Pie Chart
3.	Pareto Chart
4.	Run Chart
5.	Normality Test
6.	Process Capability Analysis
7.	Histogram
8.	Scatter Plot
9.	Dot Plot
10.	Matrix Plot
11.	Box Plot

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Lesson 23 – SPC

1.	What are Control Charts
2.	Types of Control Charts
3.	Control Charts for Continuous Data
4.	Control Charts for Attribute Data

Lesson 24 – Minitab Functionalities

1.	Change Data Type
2.	Apply Formulae to Columns
3.	Sorting Data
4.	Generating new data

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Lesson 25 – Gage R&R Analysis

1.	Measurement System Analysis
2.	Gage R & R

Lesson 26 – Hypothesis Testing (Normal Data)

1.	Introduction to Hypothesis Testing
2.	1 Sample t test
3.	2 Sample t test
4.	Paired t test

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Lesson 27– Regression Analysis

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| 1. | Basics of Regression Analysis |
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Lesson 28 – Hypothesis Testing (Non-normal Data)

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| 1. | Non Parametric Tests |
| 2. | Mann Whitney Test |
| 3. | Kruskal Wallis Test |

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Lesson 29 – Analysis of Variance

1.	One Way ANOVA
2.	Test for Equal Variances & Chi Square Test for Association

Lesson 30 – Future Scope

1.	Talk about the future of the Lean six sigma with Minitab training
2.	Conclude the course

Format of Lean Six Sigma Green Belt Certification with Minitab Exam

Examination Format	
Exam Name	Lean Six Sigma Green Belt Certification with Minitab
Exam Format	Multiple Choice and scenario-based examination
Total Questions & Duration	50 Questions, 90 minutes
Passing Score	70%.
Exam Cost	Included in the training fee
Examination Body	TUV SUD

To get you fully prepared with the knowledge and skills for the Lean Six Sigma Green Belt Certification with Minitab examination, a training session at Unichrone gives immense importance to mock questions at the end of every module and problem-solving exercises within the session. Prepared by Lean Six Sigma Master Black Belt trainers, the practice tests are a true simulation of the Lean Six Sigma Green Belt Certification with Minitab examination

Contact Us

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<https://unichrone.com/>

