



*Training Course:
Lean Six-Sigma Green Belt Certification
Programme*

*5 - 16 October 2026
Cape Town (South Africa)
DoubleTree by Hilton Cape Town - Upper Eastside*

Training Course: Lean Six-Sigma Green Belt Certification Programme

Training Course code: MA1133 From: 5 - 16 October 2026 Venue: Cape Town (South Africa) - DoubleTree by Hilton Cape Town - Upper Eastside Training Course Fees: 6350 € Euro

Introduction

In today's competitive and efficiency-driven environment, organizations must continuously improve processes, reduce waste, and enhance quality to achieve operational excellence. **Lean Six Sigma** combines the principles of Lean waste reduction and Six Sigma variation reduction to deliver measurable performance improvements.

This program, developed by **Global Horizon Training Center**, equips participants with the knowledge, tools, and techniques required to lead process improvement projects using the **DMAIC Define-Measure-Analyze-Improve-Control** methodology. It focuses on practical application, enabling participants to identify inefficiencies, solve problems, and implement sustainable improvements.

Participants will gain hands-on experience in data-driven decision-making, root cause analysis, and process optimization, preparing them for **Green Belt certification** and real-world project execution.

Course Objectives

By the end of this program, participants will be able to:

- Understand Lean and Six Sigma principles and methodologies
- Apply the DMAIC framework to process improvement projects
- Identify and eliminate waste and process inefficiencies
- Use data-driven tools for analysis and decision-making
- Conduct root cause analysis and problem-solving
- Improve process performance and quality
- Implement sustainable improvements and control mechanisms
- Lead Green Belt-level improvement projects

Target Audience

This program is designed for:

- Process Improvement Professionals
- Quality Assurance and Continuous Improvement Teams
- Operations and Production Managers
- Project Managers and Engineers
- Business Analysts
- Professionals involved in performance and process optimization

Outline

Day 1: Lean Six Sigma Foundations & Define Phase

- Introduction to Lean and Six Sigma Concepts
- Overview of DMAIC Methodology
- Roles and Responsibilities Green Belt, Black Belt
- Voice of the Customer VOC
- Project Selection and Charter Development
- SIPOC Supplier, Input, Process, Output, Customer
- Defining Problem Statements and Goals

Day 2: Measure Phase

- Process Mapping and Value Stream Mapping
- Data Collection Planning
- Types of Data and Measurement Systems
- Basic Statistics for Six Sigma
- Measurement System Analysis MSA
- Establishing Baselines and Process Capability

Day 3: Analyze Phase

- Identifying Root Causes of Problems
- Cause-and-Effect Fishbone Diagram
- 5 Whys Analysis
- Pareto Analysis
- Hypothesis Testing Basics
- Data Analysis Techniques
- Identifying Key Process Drivers

Day 4: Improve Phase

- Generating and Evaluating Solutions
- Lean Tools for Waste Elimination 5S, Kaizen
- Process Redesign and Optimization
- Risk Analysis FMEA
- Pilot Testing and Implementation
- Cost-Benefit Analysis

Day 5: Control Phase & Certification Preparation

- Control Plans and Monitoring Systems
- Standardization and Documentation
- Statistical Process Control SPC Basics
- Sustaining Improvements
- Project Closure and Reporting
- Certification Exam Preparation
- Case Studies and Practical Application

Registration form on the Training Course: Lean Six-Sigma Green Belt Certification Programme

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