



Automotive Industry Development Centre Eastern Cape SOC Ltd
Your partner in becoming globally competitive

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Course Overview

The certified Lean Six Sigma Yellow Belt is a professional who is well versed in the foundational elements of the Six Sigma Methodology, who leads limited improvement projects and/or serve as a team member of a complex improvement project led by either a certified Green Belt or Black Belt, typically in a part time role. A Six Sigma Yellow belt possesses a thorough understanding of the elementary aspects of the Six Sigma Method including competence in matters contained within the phases of Define, Measure, Analyse, Improve and Control. A Six Sigma Yellow Belt understands how to implement, perform, interpret and apply Six Sigma in a limited and/or supportive role.

Certification

The Six Sigma Yellow Belt exam is a 2 hour multiple choice exams. It is an open book exam written at the end of the theory classroom training.

Course Content: Six Sigma Yellow Belt

1.0 Definition of Six Sigma

- 1.1 What is Six Sigma
 - 1.1.1 Six Sigma Metrix
 - 1.1.2 Six Sigma Methodology
 - 1.1.3 Six Sigma Management System
 - 1.1.4 Six Sigma - World Class Quality
 - 1.1.5 Statistical Thought

- 1.2 Six Sigma Benefits
 - 1.2.1 Benefits to Organisation
 - 1.2.2 Benefits to Stakeholders



- 1.3 Business Process
 - 1.3.1 Basic Concepts
 - 1.3.2 Variation in Process (Voice of the Process)
 - 1.3.3 Definition of Quality (Voice of the Customer)
 - 1.3.4 Relationship between VOC and VOP
- 1.4 Six Sigma Roles and Responsibilities
 - 1.4.1 Six Sigma Champions
 - 1.4.2 Master Black Belts
 - 1.4.3 Black Belts
 - 1.4.4 Green Belts
 - 1.4.5 Yellow Belts
 - 1.4.6 Process Owners

- 2.0 DMAIC Methodology**
 - 2.1 Define Phase
 - 2.1.1 Project Selection
 - 2.1.2 Process Flow Chart
 - 2.1.3 Conducting a Sipoc Analysis
 - 2.1.4 Voice of the Customer Analysis
 - 2.1.5 Project Charter
 - 2.2 Measure Phase
 - 2.2.1 Determining X- Variables
 - 2.2.2 Data Types and Sampling
 - 2.2.3 Histogram
 - 2.2.4 Data Planning and Collection
 - 2.2.5 Measurement System Evaluation
 - 2.2.6 Analysis of Control Charts
 - 2.3 Analyse Phase
 - 2.3.1 Cause and Effect Diagram
 - 2.3.2 Pareto Diagram
 - 2.3.3 Use of Basic Tools
 - 2.4 Improve Phase
 - 2.4.1 Failure Mode and Effect Analysis (FMEA)
 - 2.5 Control Phase
 - 2.5.1 Solution Planning
 - 2.5.2 Force Field Analysis



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- 2.5.3 Control Plans
- 2.5.4 Poke Yoke Methods, Systems and Devices
- 2.5.5 Evaluating Alternative Actions
- 2.5.6 Standardisation and Solution Replication
- 2.5.7 Project Conclusion Activities
- 2.5.8 Selling the Solution
- 2.5.9 Stakeholder Analysis
- 2.5.10 Project Presentation
- 2.5.11 Cost and Benefits
- 2.5.12 Pilot Plan

2.6 Exams