



WWW.KQEINC.COM

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Yellow Belt Training Course Outline

This three-day course introduces participants to the Six Sigma DMAIC methodology. The course introduces tools and methods for identifying and fixing problems. A certification for comprehension is available based on passing a written exam

Day 1

Overview

- Introduction
- What and Why Six Sigma?
- Six Sigma concepts – defects
- Six Sigma concepts – CT tree
- Deployment of Six Sigma
- Deployment of Six Sigma – Steps of the methodology and $Y=f(x)$

Recognize

- Overview of phase
- SIPOC (aka COPIS)
- Value added and Non-Value added
- 7 types of waste
- Process flow charts
- Summary

Define

- Overview of phase
- Problem statements
- 5W2H
- Summary

Day 2

Measure

- Overview of phase
- Root cause identification
- Brainstorming
- Fishbone diagrams
- Tree diagrams
- FMEA
- Data collection objectives



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Why do we need data
Types of data
Sampling
Data collection sheets
Measurement Error
Repeatability and Reproducibility
Data description
Histograms
The mean and the range
DPU, DPO, DPMO
Summary

Day 3

Analyze

Overview of phase
Run chart
Scatter Plot
 Example and warnings
 When to use it and not to use it
Pareto chart
Summary

Improve

Overview of phase
Priority matrix
Poka-Yoke
5S
Summary

Control

Overview of phase
Control tools
The human factor: resistance to change
Control plan
Summary