



Six Sigma Yellow Belt

CEQAL 558

MTC's Six Sigma Yellow Belt course provides "front line" employees and Six Sigma team members with an understanding of the philosophy and goals of Six Sigma as well as an understanding of their role in a Six Sigma program. This workshop intensive course walks participants through each step of the DMAIC process utilizing a series of hands-on exercises in each phase to build an understanding of how to work with data as part of a Six Sigma team.

Who Should Attend:	Individuals who will be participating on Six Sigma teams, will be undertaking activities related to Six Sigma or will be impacted by Six Sigma activities.
Prerequisite:	None
CEU's Credits:	1.6
Duration:	16 Hours – 2-day course
Course Content:	<p>Introduction to Six Sigma</p> <p>This section introduces the Yellow Belt to the fundamentals of Six Sigma. It creates a basic understanding of the variation reduction strategy and explains the team members role in Six Sigma projects.</p> <ul style="list-style-type: none">• The purpose of Six Sigma• How Six Sigma improves processes• Six Sigma success stories• Process vs. product control• The role of Six Sigma team members

The Six Sigma Roadmap

This section provides a basic understanding of the DMAIC methodology and how the team proceeds through a Six Sigma project.

- Define
- Measure
- Analyze
- Improve
- Control

Define

This section describes the initial phase of the Six Sigma methodology and some of the outputs of the Define phase.

- Overview of the tools and methods used in Define
- Process Failure Mode and Effects development workshop

Measure

This topic provides coverage of measurement assessment and data collection. Key concepts include understanding measurement systems as processes and the issue of measurement error.

- Measure phase overview
- Determining what to measure
- Cause and Effect diagram Workshop
- Concept of measurement System variation
- “Graphical” gage R&R workshop

Analyze

This section provides an overview of select statistical tools used to drive toward root causes in the Analyze phase of Six Sigma.

- Analyze phase overview
- Control charts
- Control chart workshop #1 – control chart development
- Control chart workshop #2 – Identifying signals on the control chart
- Process capability and ppms
- Process capability (histogram)workshop
- Proportion nonconforming workshop

Improve

This phase of training provides the Yellow Belt with an understanding of the Improve phase of the Six Sigma process. Specific focus is on the used of designed experiments.

- Improve phase overview
- Design of experiments
- Design of experiments workshop

Control

This section provides a basic overview of the Control phase of Six Sigma.

- Document Control
- Control plans and reaction plans
- Control Charts

Each participant will receive a comprehensive manual and a Certificate of Completion at the close of the seminar.