

# Memphis Lean Six Sigma Institute

Presented by the

Mid-South Quality Productivity Center



Lean Six Sigma can be described as a statistical method to eliminate waste and improve efficiency in an organization's processes. With history dating back to 1981 at Motorola, Lean Six Sigma has been taken to an extraordinary level that spans across an array of industries beyond manufacturing. Now found in the service and transactional environment, Lean Six Sigma brings a refreshing outlook on business process improvement for how a company defines, measures, analyzes, improves and controls both operations and financials.

Through the use of Lean Six Sigma, companies:

- Enhance problem solving effectiveness by providing a model for deeper analysis of problems
- Clarify the difference between analytical and creative thinking, and determine when each is most useful
- Promote the ability to provide problem-solving support in situations where one is not an expert in the process technology involved
- Expand the range of tools available for analysis of problems

## What does it take to implement Lean Six Sigma?

When a company has made a commitment to implementing Lean Six Sigma, the company either chooses to do a 'top-down approach' or a 'bottom-up approach'. Each approach has its pros and cons as would any Lean Six Strategy. However, regardless the strategy, there are roles and responsibilities that are imperative to your company's Lean Six Sigma success. The descriptions below can help you determine how your Lean Six Sigma strategies:

### Lean Six Sigma **Yellow Belt** \$750.00/\$650.00 (Greater Memphis Chamber Member Discount)

#### Quality Basics:

- The Who, What, Where, When and How of Quality and Continuous Improvement

#### Six Sigma Basic Philosophy and Concepts:

- What is Six Sigma?
- Basic Philosophy of Six Sigma

#### Basic Lean Concepts:

- Categories of Waste
- Lean Solutions
- DMAIC

#### The Team Approach:

- Team Concept
- Roles of Lean Six Sigma Belts

#### Basic Lean Six Sigma Project and Team Tools Approach:

- Charter
- Flow Chart
- In-class Statapult project

## Lean Six Sigma **Green Belt** \$4,500.00/\$4,000.00 (Greater Memphis Chamber Member Discount)

- Apply Six Sigma's DMAIC methodology
- Apply root cause analysis techniques
- Work with a Black Belt in a Six Sigma improvement team
- Apply the tools to improve his/her functional area
- Understand how to greatly improve customer satisfaction
- Impact the company's bottom line

## Lean Six Sigma **Black Belt** \$8,500.00/\$8,000.00 (Greater Memphis Chamber Member Discount)

[Basic Overview of Quality and Improvement Approaches](#)

[Lean Six Sigma Methodology](#)

[The DMAIC Project Approach](#)

[Sigma Levels](#)

[Define Phase Overview:](#)

- Key Charter Elements
- Team Project Management
- Basic Project Management Tools

[Measure Phase Overview:](#)

- Potential Inputs
- Types of data/data collection
- Measurement System Analysis
- Failure Mode and Effects Analysis

[Analyze Phase Overview:](#)

- Understanding Variation/Distributions
- Normality/Hypothesis /Proportions Testing
- Analysis Tools

[Improve Phase Overview:](#)

- Generating/Prioritizing Solutions
- Assessing Risk
- Management Principles
- Testing Solutions
- Basic Lean Principles and Applications

[Control Phase Overview:](#)

- Levels of Control and Oversight
- Standard Work
- Control Plans

[Project Workshop](#)

[Certification Exam](#)

## Champion Training

Champions are individuals who maintain a general knowledge of the Lean Six Sigma approach and basic methodologies and tools. Champions are leaders in the organization that empower the successful completion of strategically aligned projects, and support Lean Six Sigma efforts driving toward the organization's performance goals.

# Memphis Lean Six Sigma Institute Evening Black Belt

In order to provide a more convenient and user friendly approach to Lean Six Sigma Black Belt training and certification, the Mid-South Quality Productivity Center offers an evening Black Belt certification program. This 16-week course can be conducted at your site once a week on the evening of your choice.

The Black Belt course includes “hands-on” exercises, reference materials, and ongoing coaching and support from our certified instructors. Each participant will work on a project with their respective organization, providing practical experience for the Black Belt candidate, which will enforce the skills they learn in class and produce a tangible benefit for their organization.

This is a unique opportunity for members of Mid-South organizations to attain their Black Belt while minimizing the time away from their daily work responsibilities. This course is conducted in a live classroom setting as opposed to on-line or blended courses to allow the participant an opportunity for peer-to-peer interaction, problem solving, project reporting, and accountability that cannot be experienced through e-courses.

## Lean Six Sigma Clients

- Regional Medical Center at Memphis
- FedEx
- Smith & Nephew
- City of Germantown
- Methodist Lebonheur Healthcare
- Southwest Tennessee Community College
- StoneRiver Pharmacy Solutions
- KTG (USA)/Kruger Products
- Stein World Operating Company
- Memphis City Schools