



Six Sigma (3 Days)

COURSE GOAL: If lean manufacturing moves your products through processes faster, and Six Sigma improves their quality, just imagine what combining these two powerful disciplines will do for you! This course provides the key to transforming your results in any manufacturing environment, giving you detailed, practical processes that let you leave the training room, and apply the concepts immediately!!!

PREREQUISITES: None

LEARNING OBJECTIVES:

Upon completion of this course, the students will:

- Understand what the Six Sigma process is.
- Understand how the Six Sigma process works.
- Follow the steps of the Six Sigma process in order to become more efficient.

KEY TOPICS:

I. The What

- A. Overview of Lean Six Sigma
- B. Customer Satisfaction
- C. Waste
- D. Value Added, Nonvalue Added, Required Nonvalue Added
- E. Flow and Pull vs. Push and Batch; Balance
- F. Velocity, Throughput and Lead Time
- G. Cost and Profit—Cash Flow

II. The How

- A. The Basic Tools of Lean Six Sigma
- B. Value Stream Mapping (Baselining)
- C. Lean Engineering Analysis
- D. Setup Reduction
- E. 5S
- F. Total Productive Maintenance (TPM)
- G. Practical Application of Lean Six Sigma: Indirect Expenses
- H. Project: Increase Throughput on an Assembly Line
- I. Project: Reducing Jet Ski Warranty Costs
- J. Project: Eliminate Rework—Fiberglass Bath Tubs and Showers
- K. The Psychology of Lean Six Sigma