

**Duration:**

- 2 Weeks Training

**Who Should Attend:**

- Process improvement experts who will focus on projects within their job function.

**Green Belt Key Topics:**

- DMAIC Lean Six Sigma process improvement roadmap
- Process thinking and mapping
- Process analysis tools
- Lean Six Sigma process improvement

**Benefits:**

- Projects with clear financial benefits
- Identify Key Process and Customers
- Spread Process Improvement Methodology™ and tools throughout the company
- Establish a value-focused approach to work, and problem solving

## Six Sigma Best Practices Applied to Manufacturing Operations

Manufacturing operations make up the majority of costs of any business and it is here that the Six Sigma journey typically begins. Hidden (and not-so-hidden) cost proliferate through operations in the form of scrap, rework, waste, underutilized capacity, purchase of unneeded equipment, warranty returns, inspection & test and delivery performance issues to name a few. These costs can amount to as much as 10-20% of revenue. Implementing SBTI's Breakthrough Improvement Methodology can result in a dramatic reduction of these hidden costs. This proven approach applies the DMAIC roadmap and tools to obtain substantial bottom line savings for your organization.

## The Right People

Prior to any project start, SBTI works closely with your Executive, Human Resource and Finance groups as well as operations Champions to ensure the correct level of support for the project teams. Your best operations resources are then selected as Green Belts, a role focused on process improvement.

## The Right Projects

SBTI Deployment Directors lead Champions through a structured methodology to identify key Projects. Typical Operations Green Belt projects return in excess of USD \$50,000 and SBTI typically achieves financial benefits between 10X to 30X return on investment (ROI) over the life of the program.

## The Right Roadmap & Tools

Experienced SBTI Master Black Belt instructors train the Black Belts in the Process Improvement Tools and DMAIC Roadmap. This proven approach reflects the best practices of more than 60 corporate deployments & 350 Black Belt waves since 1997. In combination with SBTI's expert project support and coaching, this approach is responsible for ensuring the targeted project return.

### Week 1

**Course work Includes:**

- Six Sigma Methodology
- Voice of the Customer
- Process Basics
- Iterative Process Mapping
- Failure Modes and Effects Analysis
- Measurement and Metrics
- Introduction to Statistical Software

**PROJECT:** Identify improvement opportunities while identifying and verifying baseline data. Primary defect data is identified. Potential causes of defects are screened for effect and value.

**RESULTS:** Projects identified. Charters established. Project timelines and roles clarified. Critical to quality factors are identified and measured.

### Week 2

**Course work Includes:**

- Survey Techniques
- Basic Statistics
- Hypothesis Testing
- Regression Analysis
- Multi-Vari Analysis
- Process Improvement Techniques
- Control Planning

**PROJECT:** Statistical analysis verifies process parameters that negatively impact current performance. Establish and implement improvements.

**RESULTS:** Focus of Improve phase identified. Monitor and control systems focused on continuous improvement.