



## ISSSC's Applied Six Sigma Green Belt Course Outline

### Day One: 8:30 AM – 4:00 PM

- Class Introduction
- Training & Certification Requirements
- Introduction to Quality Management
- Introduction to Six Sigma and Lean Methodologies
- The Role of the Project Leader
- Define Phase – Champion Responsibilities
- Define Phase – Team
  - Project Charter Amendment
  - High Level Process Mapping
  - Customer Identification
  - Stakeholder Analysis
  - Voice of the Customer Plan
  - Critical to Quality Analysis
  - Cost of Poor Quality Analysis
- Measure Phase
  - KPOV & KPIV Identification
  - Data Basics
  - Measurement Concepts
  - Development of Data Collection Methods
  - Measurement System Analysis, Gage R & R
- Class Project Homework Assignments
- Exam Review

### Day Two: 8:30 AM – 4:00 PM

- Review of Homework
- Measure Phase
  - Process Observation
  - Baseline Current Process Analysis using QI Macros
- Measure Phase – Lean Techniques
  - Process Map
  - Value Stream Map
  - Waste Elimination
  - 5S
  - Visual Workplace Rules
  - Setup Reduction (SMED)
  - Poka-Yoke
  - Kaizen Event
  - Cost of Poor Quality Amendment
- Introduction to Analyze Phase
  - Overview of Tools
  - Pareto Chart
  - Common Analysis tools
  - P values
- Class Project Homework Assignments
- Exam Review

### Day Three: 8:30 AM – 4:00 PM

- Homework Review
- Analyze Phase Continued
  - Describe findings
  - Root Cause Analysis
  - Validate findings
  - Control Charts for Attribute Data
  - Interpreting The P Chart
  - Data Warnings
  - Overview of Hypothesis Testing
  - Failure Mode & Effects Analysis (FMEA)
  - Cost of Poor Quality Amendment
- Improve Phase
  - Improvement Identification
  - Future State Process Mapping
  - Pilot Implementation Planning & Dashboard
  - Pilot Implementation
  - Pilot Implementation Improvement
  - Descriptive Analysis
  - Cost of Poor Quality Validation
- Control Phase
  - Full Scale Implementation Control Plan & Dashboard
  - Control Charts
- Control Phase Monitoring
- Transition Plan Execution
- Project Close Out
- Team Celebration
- DMAIC Review
- Certification Exam
- Class Wrap Up and Course Evaluation