



Six Sigma Green Belt

Module 1 – The Beginning of Six Sigma

- Introduction to Six Sigma Green Belt
- What is Six Sigma?
- The History of Six Sigma
- Prominent Figures in Six Sigma
- DMAIC Methodology Overview
- The Project Charter

Module 2 – Data Collection Plans, Part I

- The Project Scope of a Team
- Team Dynamics
- Paradigm Shifts
- Determining Customers, Needs and Requirements
- Quality Function Deployment and the House of Quality
- Critical to Quality Tree and Kano Model
- Process Mapping and SIPOC

Module 3 – Data Collection Plans, Part II

- Data Collection Plan – Part I
- Data Collection Plan – Part II
- Data Collection Plan – Part III
- Calculating Baseline Sigma
- Quincunx Process Demonstration
- Types of Data

Module 4 – Root Cause Analysis

- Basic Data Analysis
- Basic Process Analysis
- The Big Picture
- Root Cause Analysis
- Hypothesis Testing

Module 5 – 7M Tools

- Measures of Central Tendency
- Concept of Standard Deviation – Part I
- Concept of Standard Deviation – Part II
- Determining Project Solutions
- Prioritization Matrix
- Affinity Diagrams
- Metrics
- 7M Tools
- Interrelationship Diagrams

Module 6 – Control Charts

- QxA=E
- Maintaining Solutions

- Introduction to Control Charts
- Control Charts Conceptually
- Control Chart Construction – Part I
- Control Chart Construction – Part II
- XmR Chart
- Pre-Control
- Attribute Charts – p Charts
- Other Attribute Charts – np, c, and u
- Module 7 – Process Capability
 - Process Capability – Part I
 - Process Capability – Part II
 - Process Capability – Part III
 - Distributions – Part I
 - Distributions – Part II
 - Distributions – Part III
 - Reliability
 - Weibull Distribution
 - Chi Square Distribution
 - Multi-Vari
 - Point and Interval Estimation
 - FMEA and DOE
- Module 8 – Other Tools and Techniques
 - Design of Experiments – Part I
 - Design of Experiments – Part II
 - Design of Experiments – Part III
 - Building Charts
 - Ten Questions Regarding Six Sigma
 - Course Wrap-Up