



Six Sigma Green Belt-Healthcare

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*



VILLANOVA
UNIVERSITY

MADE AVAILABLE BY
UNIVERSITYALLIANCE
The Nation's Leading Universities Online

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

* Additional Healthcare lecture material