

# Six Sigma Certification

The Six Sigma certification program at Magna Leadership is differentiated by its basis in action learning and integration of proven management and leadership development processes. This unified approach allows learners to solve real life organizational problems and helps retain the power and knowledge of Six Sigma approach.

Details	Green	Black	Master Black
Instructor-Led Classroom	2 days	5 days	6 days
Online	4 weeks	10 weeks	12 weeks

Classes Held during Evenings or on Saturdays

Section 1: Overview	Green	Black	Master Black
Tree-Top View of Six Sigma	✓	✓	✓
Overview of the DMAIC Methodology	✓	✓	✓
Power and Benefits of Six Sigma	✓	✓	✓
ROI of Six Sigma to Your Organization	✓	✓	✓
The Six Sigma Lingo	✓	✓	✓
Project Prioritization and Alignment			✓
Synergizing DMADV (Design for Six Sigma Methodology) with DMAIC			✓
Developing Leadership and Inspiring Organizational Excellence across 70 Nations			✓
Training the Trainer (TTT)			✓

Section 2: Define	Green	Black	Master Black
Comprehending Six Sigma	✓	✓	✓
Six Sigma Basics	✓	✓	✓
Selecting and Aligning Projects	✓	✓	✓
Elements of Waste and Inefficiency	✓	✓	✓
Closing and Action Items	✓	✓	✓
Project Selection and Definition	✓	✓	✓
Project Charter and Objectives	✓	✓	✓
Making a Business Case	✓	✓	✓
Forming an Effective Team	✓	✓	✓
Charting Out Roles and Responsibilities	✓	✓	✓
Collecting Voice of the Customer, Support for Projects	✓	✓	✓
Translating Customer Needs into Critical Requirements (CTQs)	✓	✓	✓
SIPOC (Sir Pork!) Diagram	✓	✓	✓
Reviewing the Phase Stage	✓	✓	✓
Project Management and Execution			✓

Section 3: Measure	Green	Black	Master Black
Meet the Measure Stage	✓	✓	✓
Discover the Process	✓	✓	✓
Six Sigma and Statistics	✓	✓	✓
Analysis of the Measurement System	✓	✓	✓
Six Sigma Process Capacity	✓	✓	✓
Closing and Action Items	✓	✓	✓
Process Mapping and Aligning (As-Is Process)	✓	✓	✓
Quantitative Data Attributes (Continuous Versus Discrete)	✓	✓	✓
Measurement System Critical Analysis	✓	✓	✓
Data Collection Techniques and Processes	✓	✓	✓
Data Collection Plan and Method	✓	✓	✓
Understanding Variation (Understanding the Enemy of Quality)	✓	✓	✓
Measuring Process Capability and Capacity	✓	✓	✓
Calculating Process Sigma or Quality Level	✓	✓	✓
Visually Displaying Baseline Performance and Results	✓	✓	✓
Reviewing the Measurement Phase	✓	✓	✓
Process Mapping and Aligning (As-Is Process)		✓	✓
Quantitative Data Attributes (Continuous Versus Discrete)		✓	✓
Measurement System Critical Analysis		✓	✓
Statistical Software Training – Excel, Minitab, MegaStat, SPSS		✓	✓
Reviewing the Measurement Phase		✓	✓

Section 4: Analyze	Green	Black	Master Black
Tree-Top View of Six Sigma Analyze Phase and Methodology	✓	✓	✓
Visually Charting Data (Histogram, Run Chart, Pareto Chart, Scatter Diagram)	✓	✓	✓
Detailed Process Mapping of Critical Processes	✓	✓	✓
Value-Added and Efficiency Analysis	✓	✓	✓
Cause and Effect Analysis (FMEA, Fishbone, Ishikawa)	✓	✓	✓
Process Data Segmentation and Stratification	✓	✓	✓
Identification and Verification of Root Causes	✓	✓	✓
Correlation and Regression Analysis (Simple, Multiple)	✓	✓	✓
Reviewing the Analyze Phase	✓	✓	✓
Process Performance Metrics (Cp, CpK, Pp, PpK, Cpm)		✓	✓
Short Term Versus Long Term Capability and Capacity		✓	✓
Non-Normal and Nonparametric Data Distribution Transformations		✓	✓
Central Limit Theorem Applications		✓	✓
Goodness of Fit Testing – Chi Square		✓	✓
Hypothesis Testing – Inferential Science		✓	✓
Analysis of Variance (ANOVA), Two Sample Z-Tests, T-Tests, Chi Squared Tests		✓	✓
Design of Experiments (DOE) - Full, Fractional Factorials – Exploration of Variables		✓	✓
Project Charter Review and Update		✓	✓
Statistical Software Training – Excel, Minitab, MegaStat, SPSS		✓	✓
Visually Charting Data (Histogram, Run Chart, Pareto Chart, Scatter Diagram)			✓
Detailed Process Mapping of Critical Processes			✓

Section 5: Improve	Green	Black	Master Black
Tree-Top View of Six Sigma Improve Phase and Methodology	✓	✓	✓
Brainstorming Improvements	✓	✓	✓
Multi-Voting Methodology	✓	✓	✓
Quality Function Deployment (QFD)	✓	✓	✓
Reviewing the Improve Phase	✓	✓	✓
Evaluating Alternatives and Selecting a Solution	✓	✓	✓
Failure Modes and Effects Analysis (FMEA) Methodology	✓	✓	✓
Poka Yoke (Mistake Proofing) Process	✓	✓	✓
Piloting Your Solution and Controlling Risk	✓	✓	✓
Implementation Planning and Alignment	✓	✓	✓
Statistical Software Training – Excel, Minitab, MegaStat, SPSS		✓	✓
Management and Leadership Development Planning For Your Organization		✓	✓
Simulation of Process		✓	✓

Section 6: Control	Green	Black	Master Black
Meet the Control Stage	✓	✓	✓
Lean Controls and Tuners	✓	✓	✓
Defect Controls and Tuners	✓	✓	✓
Six Sigma Control Plans and Action	✓	✓	✓
Closing and Action Items	✓	✓	✓
Measuring The Results of Process Improvement	✓	✓	✓
Statistical Process Control (SPC) – All About It	✓	✓	✓
Learning and Developing a Process Control Plan	✓	✓	✓
Documenting the Process for Reproducibility and Repeatability	✓	✓	✓
Reviewing the Control Phase	✓	✓	✓
Measuring The Results of Process Improvement		✓	✓
Statistical Software Training – Excel, Minitab, MegaStat, SPSS		✓	✓
Reviewing the Control Phase		✓	✓