

Richard O. Lynch, Ph.D.

Richard is a Six Sigma Consultant with 24 years of experience. He provides excellent training and consulting in Six Sigma methodologies. This includes introductory statistics as well as advanced methods. Expertise includes experimental design and multivariate modeling, applied to manufacturing and non-manufacturing processes. He has delivered greenbelt and blackbelt certification for the following companies: Trane, Invensys, Exide Technologies, Citizen Bank, Continental Tire, Cavendish Farms, Emerson Process, Romer, McQuay, Zotos International, Kenametal, and Hershey. Richard holds a Bachelor of Science from the University of Central Florida, a Masters of Statistics from the University of Florida and a Ph.D. in Statistics from the University of Florida.

Six Sigma **Green Belt** Certification

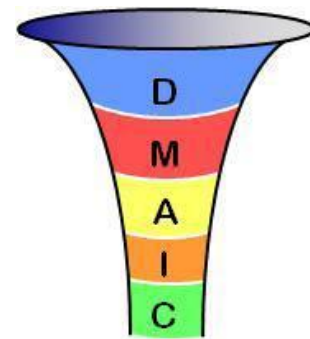
OVERVIEW

The Six Sigma **Green Belt** operates in support of or under the supervision of a Six Sigma Black Belt, analyzes and solves quality problems, and is involved in quality improvement projects. A Green Belt is someone with at least three years of work experience who wants to demonstrate his or her knowledge of Six Sigma tools and processes. Six Sigma will drive an organization toward achieving high levels of customer satisfaction while reducing operational costs. It is a fact-based, data-driven, problem solving methodology that uses statistical tools to solve problems with unknown solutions and unknown root causes.

A core part of Six Sigma is the use of a structured problem solving methodology: DMAIC– Define, Measure, Analyze, Improve, & Control. This method utilizes project chartering, data collection, and statistical analysis to select the right opportunity, implements the most appropriate improvements, and emphasizes sustaining those improvements over the long term. Certified **Green Belts** have basic knowledge of Lean Enterprise concepts, are able to identify non-value-added elements and activities, and to use specific tools.

TYPICAL SIX SIGMA IMPLEMENTATION BENEFITS:

- Cycle time reduction / faster throughput
- Defect /rework elimination / reduction
- Improved internal / external quality
- Improved customer satisfaction
- Dramatic improvement in the "bottom-line"



GREEN BELT PROGRAM BENEFITS:

- Learn what Six Sigma is and how to apply the powerful combination of tools to improve business processes and save money
- Attain peer and employer recognition
- Complete a project at your organization that utilizes tools taught throughout the course
- Become a certified Six Sigma **Green Belt** by the Manufacturers Resource Center

COURSE DESCRIPTION

This course provides participants a comprehensive application based approach to applying Six Sigma Green Belt level statistical tools. Participants will learn by applying the tools taught within the DMAIC method through the use of Minitab and interactive exercises. Throughout the workshop, time will be allotted for project review and mentoring. Candidates then complete a project at their company in order to demonstrate competency in applying Six Sigma methodology.

COURSE FORMAT & SCHEDULE

Week 1 – 4.5 days

Week 2 – 4 days

Each week is approximately one-month apart.

After taking these initial two weeks of training, a Green Belt can continue toward their Black Belt in the future. Other programs require the first two weeks to be repeated for continued Black Belt training.

COURSE OBJECTIVES

Be trained to:

- Understand the history, deployment, roles, and concepts of Six Sigma
- Use the DMAIC methodology and how it relates to sustaining Six Sigma Project results
- Link input and output data using the Six Sigma formula [$Y = f(x)$] for use in statistical analysis
- Create a project charter and SIPOC
- Funnel variables using Process mapping, C&E Matrix, and FMEA
- Create Pareto Diagrams, Graphical Summaries, and other Multi-variable charts in Minitab
- Calculate RTY and DPM/DPMO for a process
- Understand how to conduct a Measurements Systems Assessment / Gage R&R
- Explain and create variable control charts in Minitab
- Understand the Basic Lean Tools
- Calculate Cp & Cpk for a selected process
- Test the concepts of hypothesis testing, normality, and chi-square
- Conduct T-Test, one-way ANOVA, and a correlation and regression analysis
- Plan and conduct a basic 2^k experimental design (DOE)
- Understand the importance of implementing Mistake Proofing / Poke Yoke
- Create a process control plan, savings plan, and project transition plan

WHO SHOULD ATTEND?

CEOs, VPs, Directors, General Managers, Managers, Engineer, Supervisors, Group Leaders, QA / QC Managers & Supervisors, Financial Analysts, Accountants or anyone in management or leadership positions that want to apply the Six Sigma methodology to reduce defects, improve processes, increase throughput, and improve the bottom line financial results.

FOR MORE INFORMATION CONTACT:

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