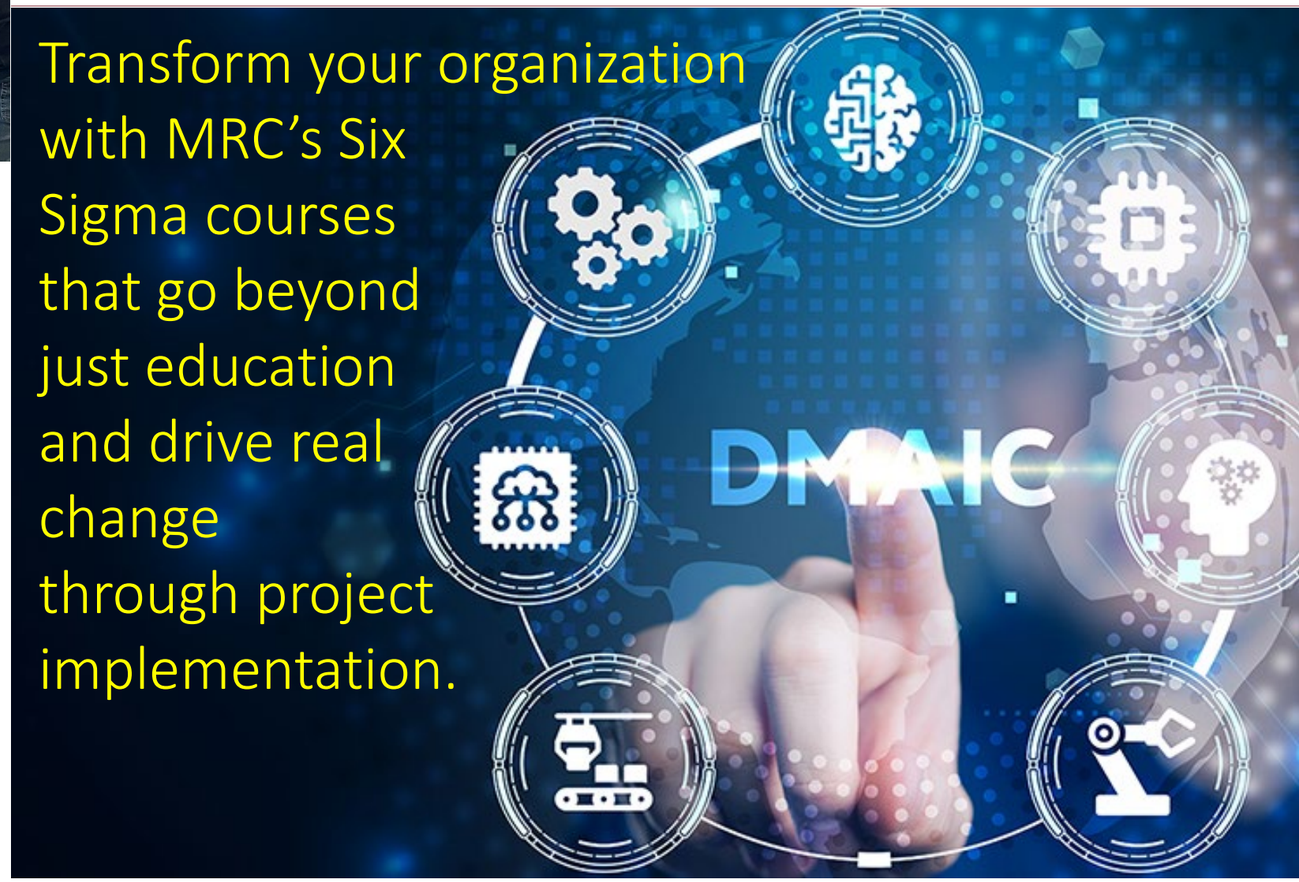
Six Sigma
Green & Black Belt Certification 2024

Manufacturing Excellence With Six Sigma.

Elevate quality, amplify efficiency, and slash costs. Seize a competitive edge, delight customers, and fuel continuous improvement. Choose Six Sigma now and join the ranks of elite problem-solvers.



Who Should Attend

This course is for: senior level decision makers, general managers, supervisors, group leaders, quality managers, engineers and technicians, process engineers, and any discipline that wants to apply the Six Sigma methodology to eliminate waste, reduce inventory, improve processes, increase throughput and improve bottom-line financial results.

Meet Our Trainer

Richard Titus, Jr., Ph.D. Titus Consulting

Richard Titus, PhD, is a Master Black Belt who spent nearly 20 years at Ingersoll-Rand in a variety of positions including operations management, IT, materials management, and manufacturing and project management among others. Dr. Titus is certified as a Black Belt and Master Black Belt by Six Sigma Qualtec where he also received his Lean training. Rich received his BS in industrial engineering and MS in manufacturing systems engineering from Lehigh University where he has been a lecturer and adjunct faculty member since 2000. In 2019, he earned his PhD in industrial engineering from Penn State University focusing his research on supplier selection. Dr. Titus has supported over 350 Lean Six Sigma projects in over 70+ companies resulting in over $60 million dollars of real savings.

- All sessions will be held at MRC's training center or at local manufacturers, which will include real-life applications to enhance your learning experience.
- MRC's training programs can be customized to your company's specific needs and offered at your facility using "Learn and Experience" methods. To learn more, please contact: **Nicole Pierce, Training & Events Coordinator** at **(484) 655-4873** or nicole.pierce@mrcpa.org.

Funding subsidies may apply. Please contact Diane Lewis at (610) 628-4578 or email her at: diane.lewis@mrcpa.org to see if you qualify.

MEP National Network™

pennsylvania DEPARTMENT OF COMMUNITY & ECONOMIC DEVELOPMENT

Bridge the gap to practical implementation. This is not your ordinary training course. Most Six Sigma courses seek to educate. Only MRC trains and assists you in the actual implementation of your project.

Case studies don't cut it here. Your Six Sigma project is chosen by you to drive change on a real organizational issue. Successful completion means you are improving product quality, enhancing customer service and saving your company money.

Project Mentoring is expected, not optional. The instructor goes above and beyond to ensure you are successful. Course price includes (4) individualized onsite project mentoring meetings. Mentoring by a Master Black Belt helps ensure a solid ROI on your first project.

Manufacturers Resource Center
MRC
7200A Windsor Drive| Allentown, PA 18106
(610) 628-4640 | www.mrcpa.org

Green Belt Certification

Gain a solid foundation in Six Sigma methodologies and tools, allowing you to actively contribute to process improvement projects.

Black Belt Certification

Invest in your professional development and join the ranks of elite problem-solvers with Six Sigma Black Belt Training.

Price: $5,495

*Early registration discount price $4,995**

- *Full MINITAB license is required and is not included in the course fee. Current Minitab pricing $1,780 annual license fee + PA sales tax, but subject to change.*
- **Tuition Includes:** Up to four onsite project mentoring meetings. Mentoring sessions must be scheduled and completed within six months after the end of training.

2024 Schedule

**Early registration date November 14, 2023*

- Week 1: January 9-11
- Week 2: February 5-7
- Week 3: March 5-6
- Week 4: March 26-27

Participants must attend all training dates because each training sessions builds upon each other. Any missed dates are the responsibility of the student to review materials prior to the next class.

All sessions run 8:30 AM - 4:00 PM
Dates and location subject to change

Register today, visit:

mrcpa.org/events or contact:
nicole.pierce@mrcpa.org (484) 655-4873

Program Overview and Objectives

Six Sigma Green Belt is designed for individuals with little or no prior experience with Six Sigma methodologies. This course is considered a "Dark Green" belt as it emphasizes statistical tools to improve performance and have the goals "stick." Objectives include:

- Demonstrate the DMAIC methodology
- Document to show progress and results
- Select and apply tools
- Collect and analyze data

Program Description

This Six Sigma Green Belt course consists of 10 classroom days and 4 individualized onsite mentoring sessions. It will provide a comprehensive overview of Six Sigma concepts, history, roles, implementation, and Green Belt statistical tools. A core part of Six Sigma Green Belt Training is:

- Process Flowcharting
- Process Capability
- Control Charts
- Measurement Systems Analysis (Gage R&R)
- Failure Mode and Effects Analysis (FMEA)
- Correlation and Regression
- ANOVA
- Analysis of Variance
- Multiple Regression
- Hypothesis Testing
- Goodness of Fit Testing
- Inferential Statistics
- Distributions and Statistical Processes
- Cost Analysis and Justification
- Introduction to Design of Experiments

Benefits

After completing this course, participants will be able to create control charts, process maps, and control plans to describe Six Sigma roles within an organization, use statistical tests to improve processes, use Minitab to complete statistical analysis, and define a Six Sigma project. Typically, Green Belt projects save at least $25k to $50k in cost savings in process improvement.

Program Overview and Objectives

Six Sigma Black Belt includes the first 10 days of Green Belt, plus 7 days of Black Belt material. This format is designed to support companies sending multiple participants to training, improving synergy and shared learning within the organization. In addition to what is taught during the Green Belt days the last 7 days of Black Belt training will focus on:

- Advanced Regression and ANOVA
- Advanced Capability
- Design of Experiments (DOE)
- Non-Parametric Distribution (s)
- Logistic Regression

Program Description

Designed for senior level decision makers, general managers, supervisors, and group leaders to help improve business processes and sustain quality improvements.

- Hypothesis Testing of Non-Normal Data
- Advanced Multiple Linear Regression
- Correlation
- Logistic Regression
- Design of Experiments (DOE)
- Full and Fractional DOE
- Noise and Variation Reduction in DOE
- Improve and Control Phase Review
- Advanced Capability Analysis
- DOE Split Plot Designs
- DOE Screening Designs

Benefits

After successfully completing the Six Sigma Black Belt course participants will be able to utilize multiple regression, determine recommended DOE sample size, perform and verify results for designed experiments. Typically, Black Belt projects save $50k to $100k in cost savings in process improvement.

Price: $9,750

*Early registration discount price $8,795**

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- **Tuition Includes:** Up to four onsite project mentoring meetings. Mentoring sessions must be scheduled and completed within six months after the end of training.

2024 Schedule

**Early registration date November 14, 2023*

- Week 1: January 9-11
- Week 2: February 5-7
- Week 3: March 5-6
- Week 4: March 26-27
- Week 5: April 15-17
- Week 6: May 30-31
- Week 7: June 10-11

Participants must attend all training dates because each training sessions builds upon each other. Any missed dates are the responsibility of the student to review materials prior to the next class.

All sessions run 8:30 AM - 4:00 PM
Dates and location subject to change

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