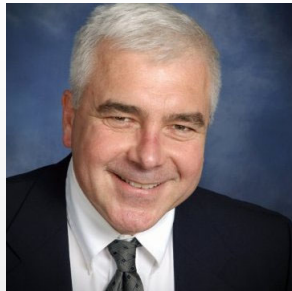


## Who Should Attend

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, Ph.D.  
Titus Consulting

Richard is a Master Black Belt who spent nearly 20 years at Ingersoll-Rand in a variety of positions ranging from operations management, information systems, materials management, manufacturing engineering, design engineering, and more. Dr. Titus was certified as a Black Belt and Master Black Belt by Six Sigma Qualtec. He completed executive training with the Mahler Institute, Demand Flow Technology training at the John Costanza Institute of Technology and completed Lean Training with Six Sigma Qualtec and is a certified nuclear auditor and a certified trainer for DDI. Dr. Titus earned a B.S. and M.S. in Engineering from Lehigh University and has been a lecturer or adjunct faculty member with Lehigh's College of Business since 2000. He earned his Ph.D. in Industrial Engineering from Penn State University in May 2019 focusing his research on supplier selection. Dr. Titus has supported over 350 Lean Six Sigma projects in over 50+ companies resulting in over \$50 million dollars of real savings.

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



# Six Sigma Green & Black Belt 2022 Certification

## The MRC Difference

### **Bridges 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



7200A Windsor Drive | Allentown, PA 18106  
(610) 628-4640 | [www.mrcpa.org](http://www.mrcpa.org)



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## Cost: \$4,995

Early registration \$4,500 by 11/18/21

Full MINITAB license is required and is not included in the course fee. Current Minitab pricing \$1,610 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.

## 2022 Schedule

- Week 1: January 11, 12 & 13
- Week 2: February 15, 16 & 17
- Week 3: March 8 & 9
- Week 4: April 12 & 13

8:30 am - 4:30 pm

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.

**Register:**  
mrcpa.org/events

**Location:**  
MRC  
7200A Windsor Drive  
Allentown, PA 18106

**Questions?**  
Please contact Diane Lewis  
(610) 628-4578 | diane.lewis@mrcpa.org

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

## 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. We developed this format so that individuals within the same company could attend the training together. This improves the synergy 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
- 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 | ■ DOE Screening Designs                |
| ■ Advanced Multiple Linear Regression   | ■ DOE Split Plot Designs               |
| ■ Correlation                           | ■ Noise and Variation Reduction in DOE |
| ■ Logistic Regression                   | ■ Advanced Capability Analysis         |
| ■ Design of Experiments (DOE)           | ■ Improve and Control Phase Review     |
| ■ Full and Fractional DOE               |  |

## Benefits

After successfully completing the Six Sigma Black Belt course participants will be able to explain multiple regression, perform factorial experiments, determine size calculations needed for experiments, and describe the different types of process optimization. Typically Black Belt projects save \$50k to \$100k in cost savings in process improvement.

## Cost: \$8,495

Early registration \$7,995 by 11/18/21

Full MINITAB license is required and is not included in the course fee. Current Minitab pricing \$1,610 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.

## 2022 Schedule

- Week 1: January 11, 12 & 13
- Week 2: February 15, 16 & 17
- Week 3: March 8 & 9
- Week 4: April 12 & 13
- Week 5: May 9, 10 & 11
- Week 6: May 31 & June 1
- Week 7: June 29 & 30

8:30 am - 4:30 pm

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.

**Register:**  
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