



Six Sigma Belts

Master Black Belt

Leader in building expertise in Six Sigma methodology in the business. Helps set the Quality strategy and then leads and manages projects by Black Belts to achieve the strategy. Teaches Six Sigma to Black Belts, Green Belts, and Yellow Belts. Performs project reviews of Six Sigma projects undertaken in the business to ensure teams follow the methodology and use appropriate tools correctly.

Black Belt

Helps create expertise in Six Sigma methodology in the business. Full-time employee dedicated to performing Six Sigma projects including mentoring of Green Belt projects.

Green Belt

Trained in Six Sigma and conducts projects related to everyday tasks they perform. Mentored by Black Belt during project selection and execution.

Yellow Belt

Aware of the basics of Six Sigma. Understands why data is collected and why changes to processes are initiated by Six Sigma projects conducted by Green Belts, Black Belts, or Master Black Belts. Does not lead DMAIC projects but may be a project team member.

White Belt

Aware of the basics of Six Sigma. Typically not a member of a Six Sigma project team. DMAIC projects may result in changes to processes performed daily by a White Belt.

About Six Sigma

Six Sigma Philosophy

Reducing variation in the performance of your products or services will improve customer satisfaction, retention, and ultimately lead to customer delight.

Six Sigma Vision

Effective leaders who can energize others often succeed by stating a vision of what the future state will look like. This vision statement includes clearly defined goals with associated measures that define success.

Six Sigma Metric

Six Sigma is a unitless measure that describes the quality of a product or process. The higher the sigma value, the better the quality. Six Sigma quality is equivalent to only 3.4 defects or failures in one million opportunities.

Six Sigma Attitude

As quality improves and the improvements are quantified, people begin to shift their attitude about quality not only in their job but in other aspects of their life.

Six Sigma Course Offerings

Six Sigma Champion

Workshop Description:

This training program introduces the myriad of topics an organization should consider as they introduce Six Sigma as a continual improvement methodology. Content consists of an overview of Six Sigma terminology, tools and methods. Successful completers receive a Six Sigma Champion Certificate of Completion.

Workshop Duration: 8 hours

Workshop Goal :

You will learn about the various topics related to the successful implementation of Six Sigma in their organization including:

- Six Sigma
- The Belts (Master Black, Black, Green, Yellow)
- Voice of Customer
- Organizational Structure Options for Six Sigma
- DMAIC based Project Approach to Continual Improvement
- Project Selection, Execution and Mentoring
- Deployment
- Organizational Support
- Business Impact



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Six Sigma Champion continued

Workshop Results:

Upon successful completion of the training, participants will:

1. Understand various issues related to successful Six Sigma Deployments.
2. Recognize the potential impact Six Sigma can bring to an organization.

Workshop Requirements:

No DMAIC Project or PC Requirements.

Lean Six Sigma Black Belt

Workshop Description:

This unique training program provides the skill sets needed to combine Lean concepts and Six Sigma into a coordinated Continual Improvement Quality effort. This workshop integrates Six Sigma tools and methods with the Lean tools. Project assignments between sessions require you to apply what you learn. During this program, you will be required to identify, define, and formally present one Black Belt project. The Black Belt project may be completed after the course has ended. Upon successful mastery of the Black Belt course material, you will earn a Lean Sigma Black Belt Certificate of Completion.

Workshop Duration: 160 hours

Workshop Goal:

You will learn the advanced problem-solving skills including:

- ANOVA analysis
- Design of Experiment
- Binary Logistic, Simple and Multiple Regression
- Monte Carlo Simulation
- Voice of Customer analysis
- Graphical Analysis and more!

You will learn how to use these tools to measure a process, validate the measurement system, analyze the results, develop process improvements, and quantify the resulting savings. In addition, you will see how the practical tools and methods of Lean, including kanban, kaizen, 5S, Poka yoke, and value stream mapping can be incorporated into your Six Sigma efforts.

Workshop Results:

Upon successful completion of the training, participants will:

1. Be able to use the comprehensive tools and methods of Six Sigma and Lean.
2. Have applied various Six Sigma and Lean concepts/tools to their individual Six Sigma DMAIC Projects.

Workshop Requirements:

- Participants will work on DMAIC projects that cross functional boundaries
- DMAIC project to work on during class
- PC with Minitab and Microsoft Excel Loaded (CD ROM drive and USB port)

Transactional Six Sigma Black Belt

Workshop Description:

This unique training program provides the skill sets you will need to apply Six Sigma continual improvement methods in a service or transactional business environment. This course introduces Six Sigma tools and methods and shows application to transactional service based business in several exercises and case studies. Project assignments between sessions require you to apply what you learn. During this program, you will be required to identify, define, and formally present one Black Belt project. The Black Belt project may be completed after the course has ended. Upon successful mastery of the Black Belt course material, the student will earn a Black Belt Certificate of Completion.

Workshop Duration: 120 hours

Workshop Goal :

You will learn the advanced problem-solving skills including:

- ANOVA analysis
- Design of Experiment
- Binary Logistic, Simple and Multiple Regression
- Monte Carlo Simulation
- Voice of Customer analysis
- Graphical Analysis and more!

You will learn how to use these tools to measure a process, validate the measurement system, analyze the results, develop process improvements, and quantify the resulting savings.

Workshop Results:

Upon successful completion of the training, participants will:

1. Be able to use the comprehensive tools and methods of Six Sigma
2. Have applied various Six Sigma concepts/tools to their individual Six Sigma DMAIC Projects.

Workshop Requirements:

- Participants will work on DMAIC projects that cross functional boundaries
- DMAIC project to work on during class
- PC with Minitab and Microsoft Excel Loaded (CD ROM drive and USB port)



For a current schedule of Six Sigma classes offered on the Volunteer State campus, go to www.volstate.edu/workforce and click on Six Sigma.

Six Sigma Green Belt

Workshop Description:

This unique training program provides the skill sets you will need to apply Six Sigma continual improvement methods within your team. This course introduces Six Sigma tools and methods and demonstrates business applications in service-based business through several exercises and case studies. Project assignments between sessions require you to apply what you learn. During this program, you will be required to identify, define, and formally present one Green Belt project. The Green Belt project may be completed after the course has ended. Upon successful mastery of the Green Belt course material, the student will earn a Green Belt Certificate of Completion.

Workshop Duration: 80 hours

Workshop Goal:

You will learn the advanced problem-solving skills including:

- ANOVA analysis
- Design of Experiment
- Simple and Multiple Regression
- Monte Carlo Simulation
- Voice of Customer analysis
- Graphical Analysis and more!

You will learn how to use these tools to measure a process, validate the measurement system, analyze the results, develop process improvements, and quantify the resulting savings.

Workshop Results:

Upon successful completion of the training, participants will:

1. Be able to use the basic tools and methods of Six Sigma
2. Have applied various Six Sigma concepts/tools to their individual Six Sigma DMAIC Projects.

Workshop Requirements:

- Participants will work on DMAIC projects within their span of control
- DMAIC project to work on during class
- PC with Minitab and Microsoft Excel Loaded (CD ROM drive and USB port)

Six Sigma Yellow Belt

Workshop Description:

This unique training program provides the skill sets you will need to be an active member on a Six Sigma DMAIC project. This course introduces Six Sigma tools and methods and shows application to transactional service based business in several exercises and case studies. Upon successful mastery of the Yellow Belt course material, the student will earn a Yellow Belt Certificate of Completion.

Workshop Duration: 40 hours

Workshop Goal:

You will learn the advanced problem-solving skills including:

- ANOVA analysis
- Simple Regression
- Voice of Customer Analysis
- Graphical Analysis and more!

You will learn how these tools are used to measure a process, validate the measurement system, analyze the results, develop process improvements, and quantify the resulting savings.

Workshop Results:

Upon successful completion of the training, participants will:

1. Understand the use of the basic tools and methods of Six Sigma
2. Be more productive team member on either Green Belt or Black Belt projects

Workshop Requirements:

- No DMAIC Project or PC requirement



**Questions About Training?
Call 615.230.3359**

Six Sigma Pricing -- Group Discount Chart

Per Student Fee for Individuals from One Organization

	5 Students	6 to 8 Students	9 to 12 Students	13 to 20 Students
Six Sigma Champion Training	\$249.00	\$237.00	\$212.00	\$199.00
Lean Six Sigma Black Belt	\$5,499.00	\$5,224.00	\$4,674.00	\$4,399.00
Transactional Six Sigma Black Belt	\$3,899.00	\$3,704.00	\$3,314.00	\$3,119.00
Six Sigma Green Belt	\$2,699.00	\$2,564.00	\$2,294.00	\$2,159.00
Six Sigma Yellow Belt	\$1,999.00	\$1,899.00	\$1,699.00	\$1,599.00
Six Sigma White Belt	\$124.00	\$118.00	\$105.00	\$99.00
Design for Six Sigma (DFSS)	\$1,999.00	\$1,899.00	\$1,699.00	\$1,599.00

Six Sigma White Belt

Workshop Description:

This unique training program provides an awareness of the basics of Six Sigma to associates who are typically **not** an active member on a Six Sigma DMAIC project team. DMAIC projects may result in changes to the daily processes performed by the participant.

Workshop Duration: 4 hours

Workshop Goal:

You will learn about various topics related to the Six Sigma implementation program taking place in your organization including:

- Six Sigma Overview of DMAIC
- Process Mapping
- Failure Mode and Effect Analysis (FMEA)
- Ishikawa Diagrams (Fishbone)
- Mistake Proofing
- Graphical Analysis
- Change Management
- Implementing Solutions



About the Instructor Richard Britnell

Richard Britnell has significant management experience gained through multidisciplinary jobs in an international work environment. He joined GE after a 20 year career in the US Navy. As a Certified Master Black Belt, he has created custom examples to demonstrate various Six Sigma concepts in his training classes. He has trained over 500 individuals from various disciplines and educational backgrounds as Yellow Belts, Green Belts, Black Belts or Master Black Belts in DMAIC / DFSS Six Sigma methodologies in the United States, Europe and Asia. His students have included mechanical and electrical engineers, healthcare professionals, comptrollers, sales professionals, equipment repair technicians, software engineers, financial analysts, and environmental health and safety experts. Students have also ranged from individual contributors to senior managers. He has led project teams focused on financial reporting, software engineering, customer help desk, service delivery, supply chain and parts delivery.

Richard was recognized for Six Sigma training excellence at GE with management awards and an invitation to help teach an initial MBB/BB course at the Jack Welch Center in Bangalore, India. He was chosen as the representative from Global Exchange Services to join a team of representatives from other GE businesses to create a standard Design For Six Sigma curriculum for GE.

Design for Six Sigma (DFSS)

Workshop Description:

This unique training program leverages the skill sets obtained through use of the Six Sigma DMAIC process. This course introduces Six Sigma tools and methods necessary to achieve the desired performance levels on multiple Critical to Quality (CTQ) characteristics for a new product or service offering. One case study will be used throughout the course together with additional exercises to demonstrate various tools and methods. The case study will start with a product concept, design constraints for the product and multiple critical to quality characteristics the product must satisfy. By the end of the workshop students will be able to realize their design in a completed product prototype they have built and evaluated. Upon successful mastery of the DFSS course material the student will earn a DFSS Certificate of Completion. **Prerequisite:** Complete either Six Sigma Green Belt or Black Belt course.

Workshop Duration: 40 hours

Workshop Goal:

You will learn the advanced tools and concepts including:

- Quality Function Deployment (Flowdown and Flowback)
- Design Scorecards
- Pugh Matrix
- Monte Carlo Simulation (building a Model related to the Case Study)
- Introduction to Triz, Axiomatic Design and Design for X
- Reliability (Weibull Distribution)

You will learn how to use these tools to design a product or service to meet several Critical to Quality characteristics.

Workshop Results:

Upon successful completion of the training, participants will:

1. Understand the comprehensive tools and methods related to Design for Six Sigma.
2. Have applied various Design for Six Sigma concepts/tools to the Case Study.

Workshop Requirements:

- PC with Minitab and Microsoft Excel Loaded (CD ROM drive and USB port)

Six Sigma courses can be delivered at your facility with discounted prices. The levels of Six Sigma training -- White, Green, Yellow, and Black Belts -- can be customized to meet your specific needs.
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