GSAW 2024 Tutorial K: Half Day

Six Sigma Green Belt Tutorial

Overview:
Our work lives are filled with processes for accomplishing our business, scientific, and engineering endeavors. When processes work efficiently, we accomplish much, but when they work poorly, our work can be stifled. Six Sigma methodology provides tools for improving processes. This tutorial will use a ground operations scenario to teach Six Sigma tools.

An overview of the Green Belt Six Sigma Coursework will be given to attendees. Learn how to implement six sigma DMAIC processes to improve how to collect and analyze data. DMAIC stands for Define, Measure, Analyze, Improve, and Control. Learn how to identify and apply Six Sigma tools to make groundbreaking improvements that could support enhancing your company's bottom-line results. This tutorial will provide attendees with a toolbox of techniques that can be utilized to improve operations for the enterprise and for programs. These techniques can equally be applied to enterprise processes, and ground systems hardware and software systems. In addition to learning the tools, attendees can choose to conduct their own process improvement project after GSAW and become an Aerospace Six Sigma Green Belt.

- Why should you attend?
    - Attend Green Belt Six Sigma Tutorial to become an agent of improvement at your organization:
        - Improve business process capabilities
        - Reduce costs and defects
        - Increase profits, productivity, and quality of your products/services
        - Boost employee morale
- Benefits to Green Belt Training Tutorial
    - Solving the root cause of problems, rather than treating the symptoms.
    - Managing performance with validated data and eliminating guess-work.
    - Developing a culture of continuous improvement.
    - Improve your stakeholder management and communication skills.

Instructors:
Yvette Harris and Denise Albert, The Aerospace Corporation

Biographies:
Yvette Harris, LSSBB, CQM-OE, MSEM is currently the is the Associate Principal Director for Corporate Quality Management Office. Prior to joining Aerospace, she worked for Raytheon as a Senior Manager of Mission Assurance at Raytheon in El Segundo, where she was the mission assurance and engineering leader of 12 Program Quality Managers and Engineers. Through her twenty plus year career, Ms. Harris has held several engineering organizational titles of Global Quality Director, Senior Manager Quality, Global Manufacturing Technology Program Manager, Regional Quality/CI Manager, NA Powder Coating Business Manager, LSSBB, Energy Engineering Consultant, Sales, Technical Services Leader, Lead Process and Production Engineering.

Yvette earned a B.S. Chemical Engineering at the University of California, Berkeley, M.S. Engineering Management at Drexel University, and is currently pursuing her PhD in Business Management at Capella

University. Yvette has taught and mentored several Green Belt candidates. Yvette earned her Lean Six Sigma Black Belt Certification in 2009.

Denise Albert, Director for the System of Systems Engineering (SoSE) Department within ETG, has been with Aerospace for 3 years. In this role she leads a distributed team located in El Segundo, CA, Colorado Springs, CO, Albuquerque, NM and Chantilly, VA. The SoSE Department provides architecture and portfolio analysis capabilities to support acquisition, portfolio, enterprise, and cross-system architectural decisions. Her previous assignment at Aerospace was as the Associate Director of the C3 Engineering and Operations Department. Before that, Denise had over 30 years of industry experience. Denise has a strong, diverse background in program management, systems engineering, manufacturing, agile software development, acquisition, business development, and enterprise management.

Denise earned a MBA in Statistical Analysis from Drexel University and a BS in Materials Engineering from Rensselaer Polytechnic Institute. She is also a Certified Sig Sigma Black Belt and Foresighting Apprentice.

Description of Intended Audience and Recommended Prerequisite:
Intended audience – Individuals seeking to bring significant cost, productivity, schedule improvements and savings to their organization and those interested in becoming a certified Six Sigma Green Belt

Recommended prerequisites – BS Engineering, Technical Experience 10+ years, Statistic experience, ANOVA.

Fast Paced tutorial with option to gain certification by completing green belt project within 6 months.

Geared toward engineers.

What can Attendees Expect to Learn:

- Use proven Six Sigma problem-solving methods and statistical tools
- Apply techniques for collecting and analyzing data
- Identify risks and mitigate process operational risks
- Reduce wasted effort by reducing inefficiencies
- Lead quality improvement projects using DMAIC methodology