

Six Sigma Certificate and Certification Programs

Certificate and Certification Overview

Mark Kiemele, Ph.D.

Air Academy Associates



Outline

- Six Sigma Green Belt Training Certificate Module 1
- Six Sigma Black Belt Training Certificate Module 2
- Six Sigma Green Belt Certification Program Module 3
(Certified Green Belt)
- Six Sigma Black Belt Certification Program Module 4
(Certified Black Belt)



Certificate and Certification Options in Six Sigma

- Six Sigma Green Belt Training Certificate
- Six Sigma Black Belt Training Certificate
- Six Sigma Green Belt Certification
(Certified Green Belt)
- Six Sigma Black Belt Certification
(Certified Black Belt)



Differences Between Certificate and Certification

- Training Certificate:
 - Complete course work successfully
 - Complete Knowledge Assessment
successfully



Differences Between Certificate and Certification (cont.)

- Certification (= certificate + project)
 - Complete course work successfully
 - Complete Knowledge Assessment successfully
 - Complete a Project:
 - Successful application of the Six Sigma methodology (DMAIC)
 - Documented Results (including financial)
 - Project Documentation (both written and verbal)

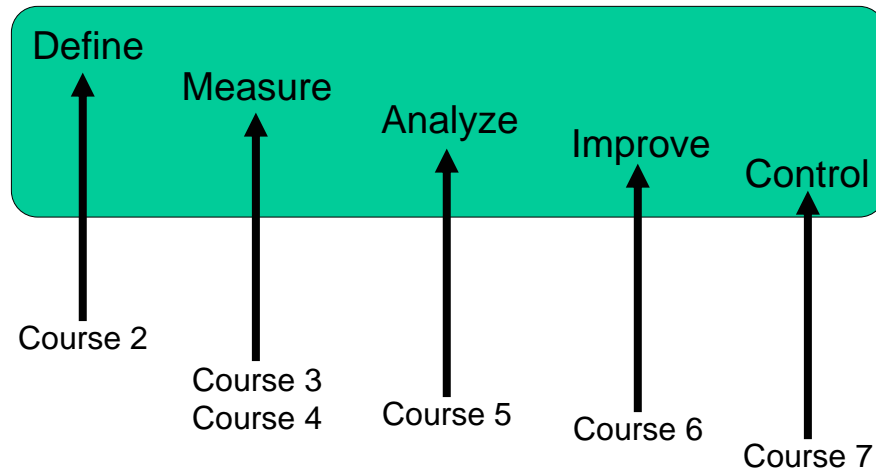


Curriculum Program Required for Six Sigma Green Belt Certificate/Certification

Courses	Course Titles
Course 1	The Basics of Six Sigma
Course 2	The Soft Side of Insuring Six Sigma Success
Course 3	Making Sense Out of Data Using Graphical and Numerical Tools (Descriptive Statistics)
Course 4	Measurement System Analysis
Course 5	Analyzing the Process and Prioritizing the Focus
Course 6	Detecting Significant Differences from Sample Data (Inferential Statistics)
Course 7	Process Control and Process Capability



Six Sigma Methodology Phases



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Additional Courses Required for Six Sigma Black Belt Certificate/Certification

Courses	Course Titles
Course 8	Understanding Data Distributions and Their Applications
Course 9	Introduction to Regression Analysis and Design of Experiments (DOE)
Course 10	Design and Analysis with 2-Level Factors
Course 11	Summary of 2-Level Designs with Rules of Thumb
Course 12	Three-Level Designs with Robustness and Multiple Response Optimization
Course 13	Historical Data Analysis
Course 14	Special Topics



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Differences Between Green Belts and Black Belts

- Green Belts:

- Lead and execute important process improvement projects.
- Are proficient in the basic tools (Courses 1-7) of Six Sigma and can characterize their processes.
- Typically work part-time on projects.



Differences Between Green Belts and Black Belts (cont.)

- Black Belts:

- Lead and execute more strategic, high impact process improvement projects.
- Are proficient in both the basic and advanced tools (Courses 8-14) of Six Sigma and can both characterize and optimize their processes.
- Typically work full-time on projects.



Six Sigma Instructional Approach

- A Keep-It-Simple-Statistically (KISS) approach is used, with the intention to avoid statistical complexity.
- Statistics is not presented as an "end", but rather the means to gaining knowledge for making good decisions which are critical for success.
- There are a variety of Six Sigma tools and techniques, and participants will have an opportunity to practice them through the use of demonstrations and simulations.
- Participants will also be encouraged to demonstrate the use of these methodologies in their specific areas.



Project Logistics

- Project support is built into the Black Belt (BB) and Green Belt (GB) Certification programs.
 - 2 hours for GB projects
 - 3 hours for BB projects
 - Support time includes project mentoring time, as well as time allocated for project report review and assessment.
 - BB projects are expected to employ tools from Courses 8-14, whereas GB projects are not.
 - All projects should be completed within 3-4 months.



Project Logistics (cont.)

- All project interaction, including definition, reporting, and documentation, will be accomplished through Air Academy Associates:
 - Project definition must be approved by AAA at the start of a project.
 - Project reports and associated documentation will be submitted to AAA for review and approval.
- Air Academy Associates is the approving authority for successful completion of projects and the final certifying agent.



Migration Possibilities Between the Options

- Six Sigma Green Belt Training Certificate
- Six Sigma Black Belt Training Certificate
- Six Sigma Green Belt Certification (Certified GB)
- Six Sigma Black Belt Certification (Certified BB)

Green Belt → **Black Belt**

Certificate → **Certification**

