LEARN HOW to make data-driven decisions

This 50-hour course provides comprehensive statistical training for Black Belts. You’ll learn to perform a wide range of statistical analyses to apply in the measure, analyze, improve and control phases of a Six Sigma project.

To successfully lead a project, you need to learn how to use the best statistical software available. In addition, to use the software effectively, you need a thorough understanding of the underlying statistical concepts and assumptions. This course focuses on preparing you well for both skills.

The course consists of 12 modules covering topics such as descriptive statistics, discrete and continuous probability distributions, hypothesis testing, analysis of variance, linear regression, design of experiments and statistical process control. Students will learn through instructional videos, assignments and quizzes. Access to Minitab statistical software is required. Instruction on how to use the software is also provided through computer lab exercises.

Your instructor has a doctorate in statistics, and she’s readily available to explain concepts during the weekly office hours.

Material covered in the course spans the American Society for Quality’s Black Belt body of knowledge.

Course Information

Course format: The course is online, self-paced with live weekly office hours and instructor feedback on assignments. Students will submit assignments via the online assignment tool.
## Textbook Requirements:

The primary textbook for this course is *Applied Statistics Manual (ASM)* by Barsalou and Smith ($99).

There is also a *Statistics for Black Belts companion slide book* ($35.99) that contains the study planner, the video screen shots and the Minitab lab exercises.

There are two additional textbooks that are suggested, McShane-Vaughn, M., *The Probability Handbook* ($99 non-ASQ member price) and Anderson and Whitcomb, *DOE Simplified* ($58.04 new).