Primer in Statistics, Advanced Statistics

Online Courses in Statistics

MiC Quality offers two courses in statistics: the **Primer in Statistics** and the **Advanced Statistics** course.

The Primer is intended for people with little or no previous exposure to statistics. The course includes analytical and graphical methods that are often used in process improvement. It provides excellent support for **Six Sigma Green Belt** training.

The Advanced Statistics course covers the more powerful methods of statistics, with the emphasis on process improvement. It includes hypothesis testing, probability and distributions, regression analysis and ANOVA. It is an ideal course to support **Six Sigma Black Belt** or Master Black Belt training.

Both courses include **interactive** simulations and numerous examples. We provide **unlimited email support** to answer your questions and discuss how you can apply the methods effectively.

Our Students Say

Jennifer McClare, Engineer, Canada:

"Very practical, lots of examples, easy to understand. Rather than just a review of math, the course was very applied with a number of very practical real-world examples. It showed me that I already knew enough to be making improvements in processes, but just didn't know how to apply it. The email support was very thorough and contained personal responses, not "canned" answers."

Glen Netherwood
MiC Quality

Main Topics for the Primer in Statistics

:: central tendency; mean, median, mode
:: understanding process variation
:: box plots, quartiles & percentiles
:: histograms, Pareto charts, stem & leaf plots,
:: variance and standard deviation
:: normal distribution
:: normal probability plots
:: scatter graphs, multi- vari charts
:: correlation, hypothesis testing, calculating the sample size

Main Topics for the Advanced Statistics Course

:: confidence intervals
:: t-distribution
:: central limit theorem
:: hypothesis testing
:: t-tests
:: type I and II errors and power
:: chi-square distribution
:: contingency tables
:: regression analysis
:: correlation, residual analysis
:: Analysis of Variance (ANOVA)
:: probability
:: binomial, Poisson and hypergeometric distributions

Features

:: **interactive** with simulations of real processes to give you hands-on experience

:: **practical** with many exercises and case studies

:: **comprehensive** each course has about 30 hours of in-depth learning over a period of 6 weeks

:: **flexible** self-paced study, anywhere, any time

:: **email support** to clarify any issues, answer any questions, and review case studies

:: **excellent** support for Six Sigma training

Who Should Enroll

:: Engineers, Managers, Supervisors, Technicians
:: Quality Practitioners
:: Chemists, Scientists and Researchers
:: Healthcare Practitioners
:: ASQ CQM, CQIA, SSBB and CQE aspirants
:: Six Sigma Green Belts and Black Belts
:: Master Black Belts

Certification

:: a **certificate of completion** if you work through over 80% of the course material

:: **3 Recertification Units** (RUs) for your ASQ certification renewal (each course)

ASQ Certification

Our **Primer** and **Advanced Statistics** courses will help to prepare you for the statistical topics in the **Body of Knowledge** for the Six Sigma **Black Belt**, Six Sigma **Green Belt** and Certified **Quality Engineer.**

Course Requirements

:: basic high school level algebra
:: PC or Mac running a recent browser
:: Microsoft Excel 97 or higher
:: **optional** - Minitab (free evaluation copy is available from www.minitab.com)

VISIT :: www.micquality.com ::

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www.micquality.com

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