Six Sigma Quality: Concepts & Cases- Volume I
(Statistical Tools in Six Sigma DMAIC process with MINITAB Applications

Chapter 1—

Introduction to Six Sigma, Lean and Design for Six Sigma (DFSS)

Chapter Outline

Chapter 2 —

Introduction to MINITAB Statistical Software: Getting Started with MINITAB

Chapter Outline

Objectives and Overview
MINITAB Statistical Software: An Overview
Worksheet (Data Window)
Session Window
History Window
Analyzing Your Data
Graphing Your Data: Scale, Labels, Data View, Multiple Graphs, Data Options
Printing and Saving Your Work
Command Sequence Used In This Text
Preparing Your Report
Changing data from Numeric to Text or Text to Numeric
Editing Your Graphs and Plots
An Interactive Session with MINITAB (Tutorial)

Chapter 3—

Visual Representation of Data: Charts and Graphs for Six Sigma

Chapter Outline & Objectives

The chapter will teach you to master powerful visual tools used in Six Sigma and data analysis. You will learn summarizing and describing data using charts and graphs. You will also learn how to construct and interpret the following graphs and charts using computer.

Histograms
Graphical Summary of Data
Stem-and-leaf Plots
Box-Plots
Dotplots

Chapter 4—

Using Statistics to Summarize Data: Concepts and Computer Analysis

Chapter 5—

Quality Tools for Six Sigma

Chapter Outline

Chapter 6—

Process Capability Analysis for Six Sigma

Chapter Outline

Chapter 7—

Measurement System Analysis: Gage Repeatability & Reproducibiliy (Gage R &R) Study

Chapter Outline