



DMAIC: Introduction to JMP (1- day)

Audience and Purpose:

This course is designed for those individuals who work on any aspect of product and process development, transactional, business process and non-manufacturing related improvement activities. It is assumed participants come from a variety of backgrounds and disciplines and will be working on a wide range of projects.

Software: JMP

Prerequisites: None

Course Objectives:

Upon completion of the course the participants will be able to:

- Transfer data sets from excel to JMP
- Understand basic data structure requirements in JMP
- Calculate summary statistics and pivot tables in JMP
- Use column and row commands
- Understand basic data integrity tools
- Use data to establish baseline performance
- Use Pareto Charts to stratify data
- Visualize relationships using scatter plots
- Evaluate change in performance after implementing solutions
- Apply JMP to data analysis problems

Course Outline:

Section I Introduction to JMP

Stack, Split, Transpose, Concatenate and Join commands
Importing Data into JMP
Column commands
Row commands
Subset commands
Formulas
Recoding Data
Data Validation
Value Ordering
Saving Scripts, Journals, Layouts and Projects

Section II Basic DMAIC Tools in JMP

Run Chart
Measures of center and spread
Histogram
Pareto Chart
Bar Charts and Overlay Plots
Cause and Effect Diagram
Run Chart with Event Markers
Before and After Histograms and Pareto Charts