



DOE – Design of Experiment

Course Description:

This course will provide participants with a working knowledge and skills necessary to design conduct and analyze industrial experiments. Basic principles of experimental design and their applications to quality and productivity improvements will be presented. The various design techniques will be discussed such as the Classical, Taguchi and Shainin approach. The main focus of the experiments will utilize the Shainin methodology.

Learning Objectives:

The course provides an intuitive introduction to the theory and practice of experimental design. The course also provides instruction and practice in the planning and analysis of experimental data. This course will help participants understand the steps of DOE application and use to improve the quality level and solve the production problems.

Who Should Attend?

This course is especially useful for individuals who want to understand and apply a collection of formal experimental procedures specifically designed to identify optimal process conditions. Quality Engineers, Line supervisors, and those assigned responsibility for leading Quality and Productivity teams will benefit from participating in this course.

Prerequisite:

There are no formal prerequisites; however a practical understanding of elementary applied statistics would be beneficial. A working knowledge of problem solving methodologies such as; Root Cause Analysis, PDCA, 8D, etc. would also be helpful.

Duration:

Normally a 2 day course however an additional 3rd day is optional for companies wanting to apply more of what they have learned to various current quality and productivity issues.