

Course prerequisite: Previously attended Practical Strategies for Process Improvement (PSPI) course or a similar course.

Session Agenda

Monday

Review of Full Factorials

Review of Fractional Factorials

Membrane Case Study

 Review of Components Of Variance (COV)

 Selecting factors for DOE

COV on Helicopters

Tuesday

Introduction to Factor Relationship Diagrams (FRDs)

Introduction to Blocking

Blocking Case Studies

Introduction to Regression Analysis of DOEs

Helicopter Experiment

Project Exercise

Wednesday

Introduction to Center Points

Case Study – Wire bonding

Central Composite Designs

Case Study - Paint

Thursday

FRD's – Part 2

Split Plot Experiments

 Reactor-Catalyst

Absorbent Pad
Mixture Experiments
Project Exercise

Friday

Analytical vs. Enumerative Studies
Presentation of Project Plans