

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