

Design of Experiments (DOE) Workshops

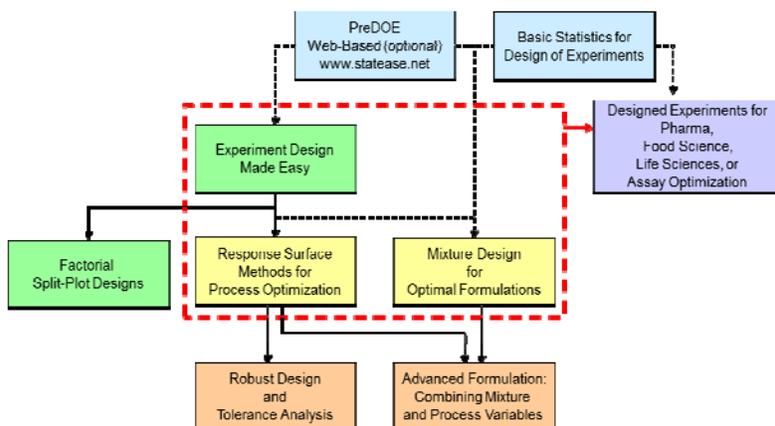
Learn how to optimize your products and processes with DOE

Stat-Ease, Inc. offers classes on design of experiments (DOE) for everyone from the first-time experimenter to the advanced practitioner. Whether you are an engineer, scientist, quality professional or statistician, you want to do all you can to improve quality and efficiency, and save money at the same time!

When you enroll in a Stat-Ease class, you benefit from experienced instructors who have worked worldwide in a variety of industries. You'll use state-of-the-art Design-Expert® software to work through many practical and specific hands-on case study exercises to learn how to apply your new skills. After class, Stat-Ease's highly experienced DOE experts provide you with individualized guidance and support to help you get started on your next project *at no extra cost!*

In addition to public workshops in the United States, Stat-Ease offers private on-site classes at your location globally. On-site training is cost-effective when you have six or more students. For more information on any of our workshops, contact the Workshop Coordinator at (612) 746-2038 or workshops@statease.com. For more detailed descriptions and outlines of each course, visit our web site at:

www.statease.com/training/workshops.html



Beginner Courses

NO PREREQUISITES

PreDOE: Basic Statistics for Experimenters

If you have never taken a statistics class, you may need a jump start before doing Design of Experiments (DOE). The PreDOE online course provides the essentials you need. It teaches the fundamental statistics used in design of experiments (DOE): normal distribution, hypothesis testing, t-testing, analysis of variance, and more through the use of reading materials, interactive exercises, and quizzes. It's fun and informative.

LOCATION: online only

PRICE: Free! (a \$95 value)

LENGTH: 4-6 hours

CEUs: 0.6

Basic Statistics for DOE (SDOE)

Basic Statistics for DOE is aimed at engineers and other technical professionals who would like to brush up on their statistical skills before attending a DOE workshop. In a quick one-day class, you will learn how to find and use confidence intervals, t-testing, analysis of variance, power, and sample size to improve your experiments. You'll also use Design-Expert® software to view practical case studies that are interwoven with statistical theory to help you rediscover your long-lost skills.

LOCATION: On-site only

PRICE: Ask for a quote!

LENGTH: 1 day

CEUs: 0.8

Experiment Design Made Easy (EDME)

Experiment Design Made Easy covers the practical aspects of DOE. You will learn how to use powerful statistical methods that give you confidence in your findings, and master simple but very powerful two-level factorial designs. Find the specific factors you need to focus on, learn how to make breakthrough improvements using powerful DOE techniques, and discover previously unknown interactions that often prove to be the key to surpassing the competition. Test and hone your skills along the way with realistic simulations.

LOCATION: Public or on-site

PRICE: \$1295, or ask for an on-site quote!

LENGTH: 2 days

CEUs: 1.6

Designed Experiments for Pharma, Food Science, Life Sciences, or Assay Optimization (DEPHM, DEFSci, DELS, or DEAO)

In these four industry-specific courses, learn how to apply DOE to solve your problems. We've designed these classes using real-life examples of industry problems. You'll learn how to achieve top performance via factorial designs, response surface designs, mixture designs, and multiple response optimization, all while working case studies similar to those you encounter in your daily work.

LOCATION: On-site only
PRICE: Ask for a quote!
LENGTH: 2 or 2 ½ days
CEUs: 1.6-2.0

Intermediate Courses

BASIC KNOWLEDGE OF STATS/DOE REQUIRED

Factorial Split-Plot Designs for Hard-to-Change Factors (FSPD)

Real-world experimentation often includes factors that are easy-to-change and hard-to-change. Split-plot designs deal with these restrictions on randomization. This half-day "add-on" to the Experiment Design Made Easy workshop shows you how to set up these practical factorial designs and analyze the results. This is the workshop that resolves real-world randomization issues!

LOCATION: Public, Live Web, or on-site
PRICE: \$395, or ask for an on-site quote!
LENGTH: ½ day
CEUs: 0.4

Response Surface Methods for Process Optimization (RSM)

Response surface methods can lead you to the peak of process performance. This workshop teaches you how to produce precise maps based on statistical models. Learn how to put all your data responses together via sophisticated optimization approaches, and find the "sweet spot" where you meet all specifications at minimal cost.

LOCATION: Public or on-site
PRICE: \$1295, or ask for an on-site quote!

LENGTH: 2 days
CEUs: 1.6

Mixture Design for Optimal Formulations (MIX)

If you create product formulations, this class is for you. You'll practice designing and analyzing mixture experiments, learning DOE methods to develop statistical models of your product and identifying that "sweet spot" where all specifications can be achieved.

LOCATION: Public or on-site
PRICE: \$1295, or ask for an on-site quote!
LENGTH: 2 days
CEUs: 1.6

Advanced Courses

FOR EXPERIENCED EXPERIMENTERS

Advanced Formulations: Combing Mixture & Process Variables (MIX2)

In this advanced workshop, learn state-of-the-art tools for design and analysis of experiments on mixtures, and how to incorporate process variables. Learn how to set up optimal designs that combine mixture components and process factors, deal with both mixture composition and the amount applied, contend with categoric variables, combine mixtures, and map mixtures to a process space.

LOCATION: Public or on-site
PRICE: \$1495, or ask for an on-site quote!
LENGTH: 2 days
CEUs: 1.6

Robust Design and Tolerance Analysis (RDTA)

Use DOE to create products and processes robust to varying conditions, then assure your specifications are met via tolerance analysis. This workshop is a must for lean manufacturing. You'll apply robust designs in lean manufacturing settings, find robust operating conditions, and minimize expensive design rework and accelerate product scale-up and commercialization. These improved design decisions will lead you to producing defect-free products.

LOCATION: On-site only
PRICE: Ask for a quote!
LENGTH: 2 days
CEUs: 1.6