




2-day In-person Seminar:

Design of Experiments (DOE) for Process Development and Validation

-  Las Vegas, NV
-  September 28th & 29th, 2017
-  9:00 AM to 6:00 PM



Heath Rushing

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Heath Rushing is the cofounder of Adsurgo LLC and co-author of the book *Design and Analysis of Experiments* by Douglas Montgomery: A Supplement for using JMP. Previously, he was the JMP and Six Sigma training manager at SAS. He led a team of nine technical professionals designing and delivering applied statistics and quality continuing education courses. He created tailored courses, applications, and long-term training plans in quality and statistics across a variety of industries to include biotech, pharmaceutical, medical device, and chemical processing.

Overview :

Prior to developing a process control plan as part of an overall risk management strategy, process development studies must be completed. The objective of these process development studies is to gain knowledge and understanding about how variation in process parameters explains variation in the product quality characteristics of the product.

The use of DOE methodology provides a means to identify process parameters which impact product quality (critical process parameters) and determine the functional relationship that links the process parameters to those critical quality attributes. Screening designs, such as 2k factorial and D-optimal designs, are used to determine critical process parameters.

Price

Price: **\$1,295.00**

(Seminar for One Delegate)

Register now and save \$200. (Early Bird)

Register for 5 attendees

Price: **\$3,885.00** You Save: \$2,590.0 (40%)*
~~\$6,475.00~~

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***Please note the registration will be closed 2 days (48 Hours) prior to the date of the seminar.*



Process
Development
and Validation

Agenda:

Day One

Lecture 1: **Primer on Statistical Analysis**sanitary transportation of human and animal foods.

- basic statistics
- two-sample t-test
- ANOVA
- regression

Lecture 2: **Introduction to Design of Experiments (DOE)**

- steps to DOE
- defining critical quality attributes (CQAs)/responses
- identifying and prioritizing potential process parameters

Lecture 3: **Screening Designs**

- full factorial designs
- 2k factorial designs

Design of Experiments (DOE)



Day Two

Lecture 1: **Screening Designs (continued)**

- fractional factorial designs
- D-optimal designs

Lecture 2: **Response Surface Designs**

- 2k factorial designs with center points
- Central Composite Designs (CCDs)
- Box-Behnken designs
- I-optimal designs

Lecture 3: **Utilizing Systematic Understanding from DOE Studies**

- presenting results
- control plan/risk management strategy

Areas Covered in the Session:

Learn how to effectively use JMP to:

- identify critical quality attributes (CQAs) that will be used as responses in your designs
- utilize risk management tools to identify and prioritize potential critical process parameters
- identify critical process parameters and develop a functional relationship between those process parameters and your critical-to-quality attributes (CQAs) using both screening and response surface designs
- be able to design and analyze screening designs including a factorial, fractional factorial, and D-optimal design
- understand the need for adding center points to a design
- be able to design and analyze response surface designs including central composite designs (CCDs), Box-Behnken designs, and I-optimal designs
- present results of DOE studies

Group Participation

10%	2 Attendees to get offer
20%	3 to 6 Attendees to get offer
25%	7 to 10 Attendees to get offer
30%	10+ Attendees to get offer

Payment Option

- 1 Credit Card: Use the Link to make Payment by Visa/Master/American Express card click on the register now link
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Contact Information: Event Coordinator

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Kindly get in touch with us for any help or information.

Look forward to meeting you at the seminar

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