

Training session

Designs of Experiments

Learn chemometrics methods to implement and optimize Designs of Experiments

Objectives

This training session on multivariate data analysis is intended for people wishing to:

- Discover the basic methods of Designs of Experiments
- Optimize their experiment scheduling (minimize number and cost)
- Be able to analyze the results obtained (maximize the information extracted)
- Know how to use the studied data analysis software

During the training, the method principles are introduced by a geometric approach. Emphasis is placed on the practical use of the method and the interpretation of the results.

Application exercises are proposed for each method. The training will be held on software dedicated to Design of Experiments: Design Expert® (StateEase) or MODDE® (Umetrics Sartorius).

Informations



No prerequisites



2 days



R&D, quality control, product development, process optimization, ...



In-house sessions



Response variable



Researchers, scientists and engineers



Agriculture / food, Petrochemical, Pharmaceutical, Biotechnology, Chemistry, Environment...

Training program

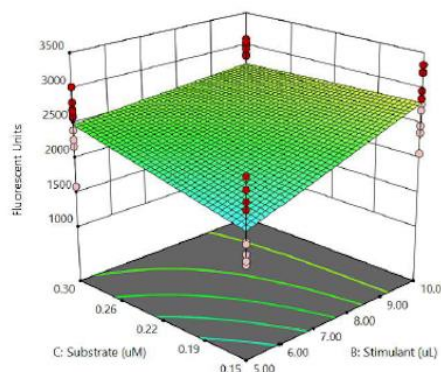
Day 1:

- > Introduction to factorial designs
- > Enhancements for Design and Analysis of Factorials
- > Blocking and Fractionating Factorials
- ✓ Application on data set and software



Day 2:

- > Small Factorial Designs
- > Factorial with Center Points and RSM Introduction
- > Response Surface Methodology – Central Composite Designs
- > Optimal Design
- ✓ Application on data set and software



In-house sessions

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