

# Training session

## Design of Experiments - DoE

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 Design\_Expert® (State-Ease), a software dedicated to Design of Experiments

**DESIGNEXPERT**  
VERSION 13

**STAT-EASE 360**

**MODDE®**

### Informations



No pre -requisites



2 days or 2,5 days



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



In-house sessions



Any data



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

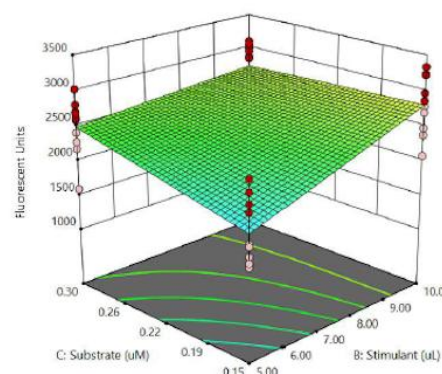
### Day 2:

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



### Conclusions on experimental strategy

- > Questions and answers on uncontrolled points
- > Prior learning assessment
- > Satisfaction quiz



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If one of your employees has a disability and needs special support, please let us know so that we can adapt the training accordingly.