



Register Now 

Curso en English

CAMO Software has more than 20 years experience in providing multivariate data analysis software, products and solutions. A recognized name in the chemometrics software domain, CAMO Software solutions help clients understand the knowledge hidden inside data.

CAMO provides professional software training and practical application development in multivariate statistical analysis, spectroscopy, experimental design, optimization and formulation, sensory analysis and PAT, worldwide.

Expand your knowledge in the field of multivariate data analysis through CAMO courses that offer you the perfect learning experience.

## Why attend Design of Experiments training?

Tailored to meet the needs of professionals and students, this course is designed around real-world industry applications of chemometrics and multivariate analysis methods. CAMO courses have a special focus on practical work with intensive, hands-on training using **The Unscrambler**<sup>®</sup> software package.

Carefully selected course exercises and application examples will take you through the necessary theory and practical real-world examples enabling better understanding of your own data.

CAMO Training courses are taught in an informal and pedagogical atmosphere by experienced CAMO personnel and partners.

## Who should participate in this program?

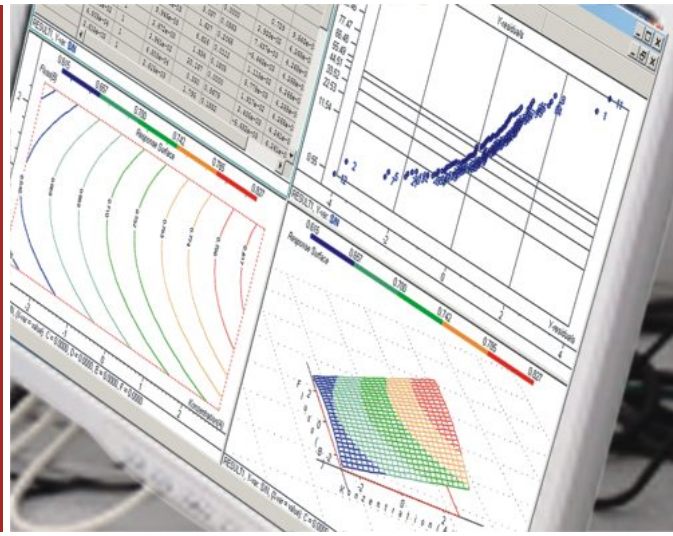
The courses have been designed for individuals:

- Involved in consumer insights, R&D, product development, process optimization, quality control & monitoring.
- Working with spectroscopic instruments (NIR, FTIR, UV, UV/VIS, NMR, DAS, Raman, Mass Spectroscopy) chromatography instruments (LC, CE, GC, HPLC), production data & sensory data, R&D, quality control or production processes.

No prior knowledge of **The Unscrambler**<sup>®</sup> is required to attend our courses.

## Course overview

The Design of Experiment training will provide participants with an overview of Experimental Design, its importance in multivariate statistics and an introduction to classical experimental strategies. The course will assume no previous statistical or DOE experience, but will accommodate advanced topics for seasoned practitioners as well.



- Principal of Experimental Designs
  - Problem formulation
  - Screening design
  - Optimization design
  - Analysis of screening design
- Analysis of optimization design
  - Response surface modeling and interpretation
  - Developing an Effective Strategy from Screening to Optimisation
  - How to integrate experimental design in multivariate analysis
  - Constrained design: D optimal and mixture designs
  - How to recognize a constrained experimental situation
  - Building constrained designs
- Analysis of results with PLS-regression
- Result interpretation

**November 10 - 12, 2009**  
**Utrecht, Netherlands**

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**Venue** To be Announced

**Day 1** 10.00 - 17.00

**Day 2** 09.00 - 17.00

**Day 3** 09.00 - 17.00

University	Non-profit Research Organization	Industry
€ 650	€ 850	€ 1050

**10% Discount**  **learn more** 

The course fees includes lunch, course material, 60-day test installation of **The Unscrambler® Quali-Sense** and the text book **Multivariate Data Analysis - in practice** by Kim Esbensen.

- The number of seats for the course is limited to 12
- Deadline for registrations: 3 weeks before the course-start
- Participants are required to bring their own Laptop.

### GENERAL TERMS:

**Payment:** 30 days net from date of invoice

**Cancellation:** Cancellations up to 3 weeks prior the course start date, will be refunded with 50% of the registration fee, after this limit, NO Fees will be refunded.

**Substitution:** The course participants may be substituted or join a later training provided that CAMO is notified.



**Dr. Marion Cuny**  
**Course Instructor**

Marion Cuny, Ph.D. is a food science engineer and specializes in signal interpretation in NMR spectroscopy applied to food authenticity issues. Awarded a Ph.D in analytical chemistry (2008) from the AgroParisTech - member of the Paris Institute of Technology, Marion also accomplished a successful 3 year term with Eurofins, an International group of contract laboratories. Marion joined CAMO in 2008 to extend the wide range of solutions for consumer insight and sensory analysis in product development and quality assurance projects.

**contact**  
**camo@camo.no**



[www.camo.com](http://www.camo.com)

**CAMO Software AS.**  
Nedre Vollgate 8  
N-0158, Oslo  
NORWAY

Tel: (47) 223 963 00  
Fax: (47) 223 963 22

**CAMO Software Inc.**  
One Woodbridge Center, Suite 319  
Woodbridge, NJ 07095  
USA

Tel: (732) 726 9200  
Fax: (973) 556 1229

**CAMO Software India Pvt. Ltd.**  
14 & 15, Krishna Reddy Colony  
Domlur Layout, Bangalore - 560 071  
INDIA

Tel: (91) 80 4125 4242  
Fax: (91) 80 4125 4181

**CAMO Software**  
Australia and New Zealand  
PO Box 97, St Peters, NSW, 2044  
AUSTRALIA

Tel: (612) 9516 3306  
Fax: (612) 9516 2934