

Advanced Quantitative Analysis

This is a Vision course dedicated to developing calibration equations and designed for users with at least 2 years of experience with Vision. Learn how the approach you chose for Sample Selection is important to the type of regression to be used; when to chose MLR and when to chose PLS; how many samples do you need; what type of range is required; what areas of the spectrum to ignore during regression, and what math treatment to chose. Customers are encouraged to bring their own data; however, data is available for all hands-on exercises.

Part Number: **XT-1095**

Calibration Development Assistance: for personal Calibration Development assistance, contact us at Education@foss-nirsystems.com to arrange the date and location.

Agenda

This agenda will be modified based on participant interests as this class is meant to be customer driven.

- Presentation
 - The Calibration data set (# of samples, range, D.O.E.)
 - Sample Selection and its affect on Regression
 - Choosing wavelength regions
 - Math pre-treatment selection
 - When to choose MLR? PLS?
 - Trend Analysis
- Hands-on Exercises – your data or ours!
 - Sample Selection
 - Regression, MLR
 - Regression, PLS
 - Calibration Transfer and Bias Adjustments
 - Trend Analysis
- Supplemental Information
 - Statistical Evaluation of Equations
 - Pre and Post Processing
 - Validation of the Equation
 - Full Method Validation

Dedicated Analytical Solutions

FOSS NIRSystems, Inc.
7703 Montpelier Road
Laurel, Maryland 20723
USA

T +1-301-680-9600
F +1-301-236-0134
E info@foss-nirsystems.com