



# FTIR Spectrometers *Training*

## ABB FTIR/NIR Calibration Training

**Description :** ABB FTIR/FTNIR PLS Calibration Training

**Item Number:** TRA-0004

### Choose the Solution That's Right for You:

ABB offers a complete solution package that is designed to streamline your process. Courses can be custom-tailored to specific processes and workflow and still provide the student with a solid foundation in FTIR/FTNIR theory utilizing the PLS industry standard calibration techniques. Even if you decide to utilize ABB's Application's group for all of your calibration development, this course is recommended to give you the background needed to understand the technology as it relates to your company.

### You save...

We have made the FTIR/FTNIR calibration course concise and informative. By concentrating on your specific application, you will receive training that can be used instantly upon completion of the course with the skill and confidence needed to develop robust PLS models using our own "real-world" data sets. This saves you time and money.

### Trainee Profile:

The experienced ABB chemometrics team offers comprehensive training for engineers, operators, programmers and maintenance personnel, up-to-date technical expertise for products, processes and technology advances. The training is available at ABB facilities or at your plant site. For special projects or specific needs, ABB's chemometricians can also supply calibration services.

### Training Details:

- All current and future users of ABB FTIR.
- Laboratory and process systems should attend.
- Course duration is 3 days in Houston, Texas. Quebec City, Canada and Singapore.
- Training can also be offered at customer location.
- Reference data from student's industry may be used for course laboratory practice.

### Typical Course Agenda

- FTIR/FTNIR Theory.
- Hardware Overview.
- FTIR Software Interface Overview.
- Chemometric Model Development (with student's plant specific or typical industry related data) with Practical Exercises.
- Discrimination Criteria (w/statistics).
- AIRS or FTSW Software Suite Configuration.
- Method Validation.
- Open Discussion, Specific Application.





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## Training Objectives

- Understand the basics of FTIR-FTNIR spectroscopy.
- Develop and update chemometric models using partial least squares (PLS) and classical quantitative tools.
- Implement or customize AIRS or FTSW100.
- Develop discrimination models to automatically determine material identification/confirmation.
- Develop/validate quantitative models with appropriate IR/NIR spectra using primary reference data.
- Develop and implement statistical discrimination criteria customized for your specific quality control requirements.

**Training Duration:** 3 days

**Number of Participants:** Minimum 6. Maximum 8.

**Locations:** ABB Bomem Inc., Quebec Canada, Houston TX, Singapore.

## Pre-Requisites

- A Laptop computer is recommended for attending the training.

**Language:** English

**Excluding:** Travel & Living expenses.

## Disclaimer:

- Training payment is not refundable.
- In case the minimum number of attendees is not reached, ABB will advise the registered attendees 4 weeks in advance if the training will be held or cancelled. It is strongly recommended not to reserve your hotel rooms nor buy your airplane tickets before ABB's confirmation.
- ABB must receive an official purchase order 8 weeks before the training; otherwise the training may be cancelled. In case of cancellation, the training will be rescheduled to a later date and attendees will be informed in advance of the new date.

**On-Site Training Available:** Contact ABB Analytical Business Unit for more information at [ftirsupport@ca.abb.com](mailto:ftirsupport@ca.abb.com). The **on-site training** requires a **minimum of 6 trainees**. **Travel cost** for the **trainer** and **material** will be charged.

For further information do not hesitate to contact us:

### **ABB Analytical**

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