ABB FTIR/NIR Calibration Training

**Description:** ABB FTIR/NIR Calibration Training

**Item Number:** TRA-0004

**Trainee Profile**

With this training, the participant will be able to develop and maintain FT-IR application and analyzer system during the initial commissioning and after. The trainee does not require any experience with FTIR analyzer. They should have practical or academic background in chemistry. The course is usually given to a small group thus giving the latitude to adapt the training for various skills, application, and experience. All current and future users of ABB FTIR systems using AIRS who wish to configure their own analysis procedures in AIRS or who need to provide system maintenance in a supervisory role. Abilities in Microsoft Windows and Microsoft Excel are required. Spectral regions of interest should be identified prior to the training.

At the end of the course, attendees will be able to:

- Develop a calibration using partial least squares (PLS) and classical quantitative tools
- Develop discrimination models which allow automatic identification and/or confirmation of the material's identity
- Implement qualitative and quantitative methods in AIRS using a variety of optional configurations
- Implement QA/QC procedures in AIRS
- Customize the configuration and use all of the advanced aspects of AIRS

**Main Topics**

- Perform instrument connection and startup, installation
- Identify the different model of ABB FTIR spectrometer
- Perform instrument validation and diagnostics
- Understand the basis of Partial Least Square (PLS) technique use for instrument calibration.
- Replace and align modules such as source and detector
- Verify instrument characteristic reproducibility to ensure calibration transfer
- Troubleshooting problems
- Hands-on session

**Training Duration:** 3 days

**Number of Participants:** Minimum 4

**Location:** ABB Bomem Inc., Quebec Canada

**Language:** English

**Including**: Training material and access to a computer with relevant software during the training period.

**Excluding**: Travel & Living expenses
On-Site Training Available: Contact ABB Analytical Business Unit for more information at ftirsupport@ca.abb.com. The on-site training requires a minimum of 6 trainees plus travel cost for the trainer and material.

For further information do not hesitate to contact us:
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