

NA415 3401/2 & 3501/2 Multiwave Photometer Training

Course Description



Course Duration

The duration is 2 days.

Course Goal

Student Profile

This course is specifically directed toward instrument/analyzer technicians and engineers responsible for set-up, operation, and maintenance of the ABB Inc. Multiwave Photometric Analyzer

Prerequisites and Recommendations

Previous experience helpful but not necessary.

Description

In this course, students will learn about:

System Overview

- Explain concepts of IR/UV system and the multiwave
- Explain function of the switches and visual indicators
- Discuss communication with VWS and Vista Net

Sample System

- Liquid Versus Vapor
- Cell length and absorption

- Possible inclusion of CAC to the system

Alarms/Warnings and System Monitors

- Display and interpretation of Alarms and warnings
- Temperature displays, voltage indications, absorbents, displays and power supply checks

Basic Trouble Shooting

- Chopper Motor Sync Signal
- Detector Signal

Schematics

- Source Control Board
- Pre-Amp Board

Hardware Disassembly, clean/repair and reassembled by students

- Removal of Filter Wheel housing filter motor
- Re-sync motor/filter wheel
- Replacement of source
- Detector/pre-amp removal and replace
- Cell removal, cell window cleaning and replace
- Logic rack removal and reinstall

Calibration and Benchmark



- Zero and Span (students perform)
- Optical Calibration (discussion)

Off-line Operation

- Digital and Analog Test

Demonstrate all Set-UP Tables

- Component Tables (students practice including linearization)

- Analyzer tables (student practice)
- Factory Tables (students view with discussion)
- Review Complete Data Sheets Package
- Class Room analyzer package
- Student package if brought to class and time permits

