

Training NIR-O™ - Agenda Maintenance and Troubleshooting

GUIDED WAVE's NIR-O maintenance training and troubleshooting courses include both classroom and hands-on-lab activities. Classes are kept small for more one-on-one instruction, and are taught by knowledgeable experts, each with extensive professional experience at Guided Wave. Copies of all training materials are provided electronically. Please contact us for course price, dates and availability.

COURSE 1: Basic Maintenance and OmniView™ Software Operation

Analyzer Setup and Startup

- Client PC Requirements
- Loading Client Software
- First Time Configuration
- Zeroing (aka Referencing)
- Scanning

LAB – Make it scan

Spectroscopy Overview

Analyzer Software Operation

- Scan and Zero (review)
- Review all Software features and functions
- Event Logs
- Help file

I/O Communications and Setup

- The IO MAP
- 4-20 mA Analog and Digital discrete
- Modbus

LAB - Spectrometer Hardware Overview and Parts Replacement

- Spectrometer Module
- Lamp Filter Module
- Controller Module
- Cabinet temperature controller
- Power supplies
- Touch Screen

Probes and Fiber

- Students will review the internal workings and manufacture of various online probes and flowcells.

LAB – Routine and Preventive Maintenance

- Changing the lamp
- Checking fiber connections/condition
- Cleaning Probes and Flowcells
- Zeroing (aka Referencing)

Data Protection

- What to backup

Troubleshooting

- Start Fresh!
- Event Logs!
- Light Level?
- Probe Blind?



RMA Guidelines - Returning Components for Repair

COURSE 2: Advanced Troubleshooting and Fiber Termination

Review of Day 1 Basic Maintenance

LAB – Fix it!

- Several hardware and software bugs will be introduced into the analyzer. This will strengthen the students understanding of the analyzer system.
- Troubleshooting tips and techniques.

LAB - Fiber Optics Termination and Repair

- Students will have the opportunity to terminate FO cable
- Termination quality and analyzer performance
- FO Repair techniques