

ABB OVR Recloser and PCD Relay Training Program

2009





OVR Recloser & PCD Relay Training Program

Training Scope

- Discover how to best apply, operate, maintain, and test OVR Reclosers and PCD Relays to improve system reliability.
- Gain hands-on experience with PCD relays and OVR reclosers. Each participant is provided with a PCD for training.
- Learn how to utilize AFSuite™, power quality features, oscillography (with symmetrical components calculated) to analyze faults, and generate recloser curves.
- Learn about new features and troubleshooting techniques.
- Simple approach for existing, new, or potential future users.
- Geared towards engineers, technicians, and operators.
- Train with representatives from our free 24-7 technical support team.
- On-site training program available upon request
- Earn 12 professional development hours (PDH's).
- Just 45 minutes from Walt Disney World, Universal Studios, and the Daytona Speedway!!!!!!



Training Topics



The OVR / PCD training topics are located below. Please check the topics that are important to you and submit this form with your registration. This will allow ABB to focus the training session on your individual needs. If you do not see the topics you would like to discuss, write them in at the bottom of this form. Please be sure to send this form in with your registration. Training is from 8 AM - 5 PM on Day 1, and 8 AM – 4 PM on Day 2.

Check if Interested	Day 1 Topics (8:30 AM – 5:00 PM)
	Introduction <ul style="list-style-type: none"> • Welcome, Introductions
<input type="checkbox"/> <input type="checkbox"/>	PCD Overview <ul style="list-style-type: none"> • Hardware Identification • PCD Design & Functions
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	AFSuite™ <ul style="list-style-type: none"> • Software Setup - AFSuite™ • Computer Communications Setup • Fleet View - PCD Setup within AFSuite™ • Basic Settings • Protection Settings • Fault Location & Testing
	Lunch
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	AFSuite™ Functions & Tools <ul style="list-style-type: none"> • Event Records & Counters • Metering • Load Profile • Operation Menu • Managing Databases – Online Offline, Copy, Import, Export, Comparison, Transmit/ Receive • DNP Configurator
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	AFSuite™ Programming <ul style="list-style-type: none"> • Programmable I/O • Logic Examples (HLT) • Setting Alarms • Over/Under Voltage Protection • Hard Wire SCADA

Training Topics

Check if Interested	Day 2 Topics (8:30 AM – 4:00 PM)
<input type="checkbox"/>	OVR Recloser Assembly & Plant Tour
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	OVR-3 / OVR-3SP & PCD Demonstration <ul style="list-style-type: none"> • Presentation • Hands-On Testing and Operational Training • Control Cabinet • Troubleshooting & Maintenance • Voltage Sensing & OVR Recloser Features & Benefits
	Lunch
<input type="checkbox"/>	Upgrading Firmware (OVR-3 / OVR-3SP)
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Advanced Features <ul style="list-style-type: none"> • Loop Schemes (LCM Module) • Recloser Relay Curve Generator (CurveGen™) • Oscillography (WaveWin™) • Power Quality (AFSuite™) • FA Users Site – Feeder automation site for PCD/OVR recloser customers.
<input type="checkbox"/>	OVR-1 Single Phase Recloser, ICD, & ISD Overview
<input type="checkbox"/>	Q & A Session with 24-7 Customer Support Team

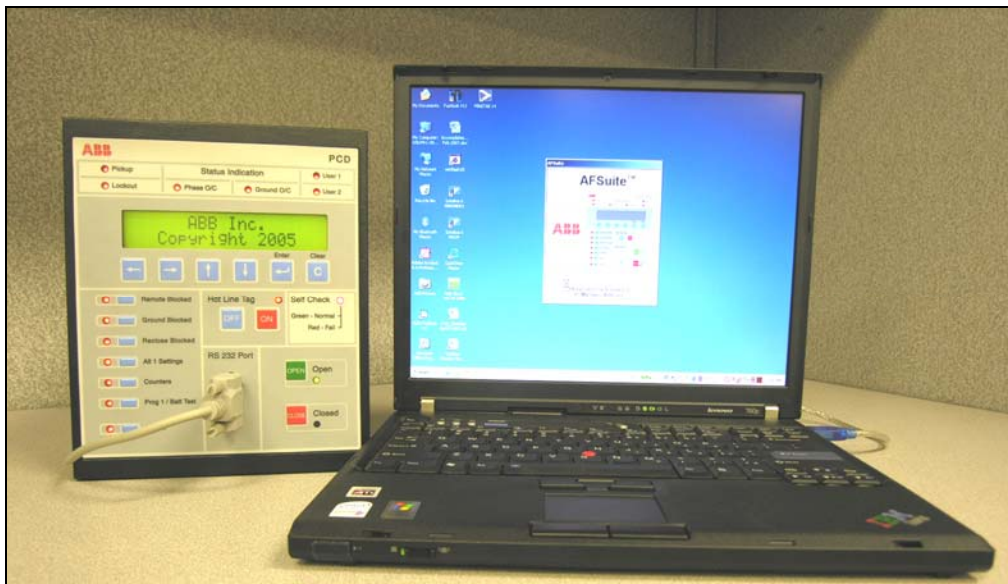
Suggest a Topic

Please be sure to send this form in with your registration.

Training Requirements

You will need to bring your own laptop that meets the following requirements:

- 256 MB of RAM or higher
- 30 MB of Hard Drive Space
- One of the following operating systems:
 - Windows XP
 - Windows 2000
 - Windows NT 4.0
 - Windows 98 2nd Edition
- Internet Explorer 5.50 or higher
- RS-232 serial port (on laptop)
or
USB port and USB to serial port converter.
- RS-232 null modem cable



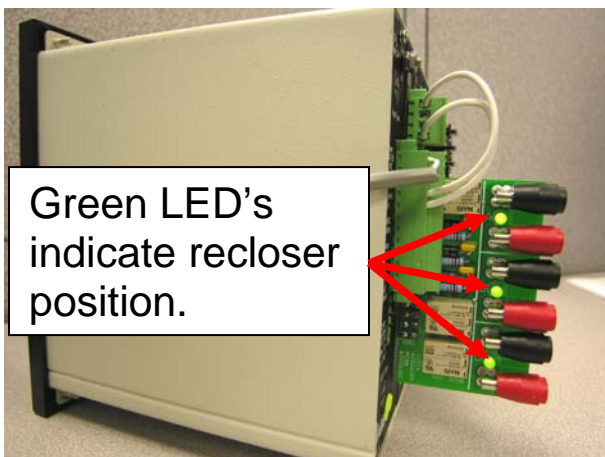
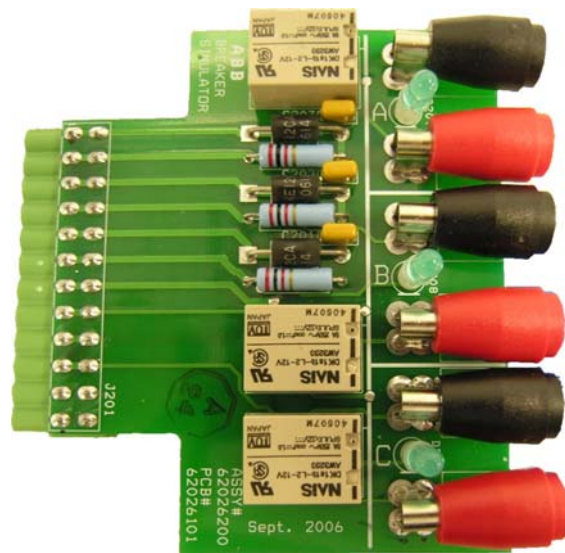
IMPORTANT: Please have AFSuite™ loaded onto your laptop computer prior to attending the training session. Administrative rights must be granted to load AFSuite™ onto a laptop. Please call 24-7 Customer Support Line at 1-800-929-7947 ext. 5 or +1-407-732-2000 (international) and dial ext. 5 for technical support.

OVR Recloser Simulator Card

Test out relay schemes or verify the operational integrity of a PCD relay with an ABB OVR Recloser Simulator Card (Part # 620262-T1). The simulator card is available at a discounted price during the OVR/PCD training class. See registration form for details.

The ABB Simulator Card features:

- ✓ Test Relay Schemes
- ✓ Simulate Fault Conditions
- ✓ Plug and Play
- ✓ Inject secondary currents up to 5 A (to simulate primary currents up to 3000 A)
- ✓ Plugs into DIO Type 2 card found on the back of the PCD relay.



- ✓ Compatible for use with AFSuite™ software.
- ✓ Optional PCD software can collect oscillographic records of fault simulations.
- ✓ Test a PCD Relay without operating an OVR Recloser

2009 Registration Form

Training Includes: Course literature, OVR recloser manuals, PCD manual, and current versions of AFSuite™, CurveGen™, WinFlash 35™, and WaveWin™ software for your ABB OVR recloser. PCD's and OVR recloser simulator cards will be furnished for the class. Each customer can purchase a recloser simulator card at the discounted price listed below.

Meals Included: DAY 1: Refreshments, Lunch, and Dinner
DAY 2: Refreshments and Lunch

Requirements: Please bring your laptop computer with AFSuite™ loaded, RS-232 null modem cable, and USB to serial adapter (if laptop does not have RS-232 serial port).

Fee Options:

- \$750.00 – Tuition Only (includes everything above)
- \$950.00 – Tuition + OVR Recloser Simulator Card (30 % cost savings from the standard list price for a OVR recloser simulator card)

CLASS DATES (select one): March 4 & 5 April 1-2 (En español)
 June 10 & 11
 September 16 &17
 December 9 & 10

Personal Information:

NAME: _____

TITLE: _____

JOB RESPONSIBILITIES: _____

COMPANY NAME: _____

COMPANY ADDRESS: _____

CITY, STATE, ZIP: _____

PHONE NUMBER _____

FAX NUMBER: _____

EMAIL ADDRESS: _____

SALES REPRESENTATIVE: _____

Method of Payment (circle): *Check* *Visa* *MasterCard* *American Express*

PO: _____ *Check Number and Amount* _____

Credit Card Number: _____ **Expiration Date** _____

Name on Credit Card: _____

Training Location:

The OVR Recloser & PCD Training Program will be held at the ABB factory at 655 Century Point in Lake Mary, Florida 32746.

Hotel Information

Orlando Marriot® Lake Mary
1501 International Parkway
Lake Mary, FL 32746 (United States)
Telephone Number: +1-407-995-1100
Website: <http://www.marriott.com>

Ask for ABB OVR Recloser Group Code: ARPAPPA
ABB Room Rate (per day): \$99 (plus tax)



Hotel Information (Additional Lodging)

- 1. Homewood Suites® (by Hilton® Hotels)**
755 Currency Circle
Lake Mary, Florida 32746 (United States)
Telephone Number: +1-407-805-9111
Website: <http://www1.hilton.com>
Distance from ABB Factory: 2.5 mi (4.0 km)
- 2. Hilton Garden Inn®**
705 Currency Circle
Lake Mary, Florida 32746 (United States)
Telephone Number: +1-407-531-9900
Website: <http://www.lakemary.stayhqi.com>
Distance from ABB Factory: 2.5 mi (4.0 km)
- 3. SpringHill Suites**
201 North Towne Road
Sanford, Florida 32771 (United States)
Telephone Number: +1-407-995-1000
Website: <http://www.marriott.com>
Distance from ABB Factory: 3.7 mi (6.0 km)
- 4. La Quinta Inn**
1060 Greenwood Blvd.
Lake Mary, FL 32746 (United States)
Telephone Number: +1-407-805-9901
Website: <http://www.lq.com>
Distance from ABB Factory: 3.6 mi (5.8 km)
- 5. Hyatt Place Orlando/Lake Mary**
1255 South International Pkwy
Lake Mary, FL 32746, USA
Phone: 407 995 5555
Website: www.hyattplaceorlandolakemary.com
Distance from ABB Factory: 3 mi

Area Attractions

1. Walt Disney World

Location: From Lake Mary follow I-4 West to Walt Disney World exits.

Telephone Number: +1-407-W-DISNEY (934-7639)
Distance from ABB Factory: 36 mi (58 km)



2. Universal Studios (Florida)

Location: From Lake Mary follow I-4 West to Universal Studios Exit 75B (Kirkman Road / SR -435).

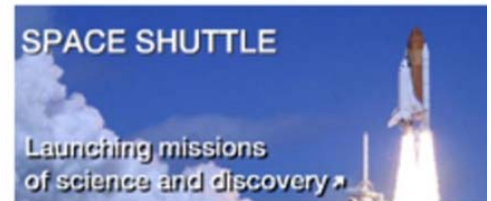
Telephone Number: +1-407-363-8000
Distance from ABB Factory: 27.9 mi (5.8 km)



3. Kennedy Space Center

Location: When exiting ABB on Wallace Court, turn left onto Rinehart Road and continue for approximately 1 mile. Turn right onto SR-46A (HE Thomas Jr. Pkwy). Please continue on SR-46A for 4.5 miles (SR-46A becomes SR-46). Continue on SR-46 for 20 mile. Take the I-95S exit and continue along I-95 and take Exit #215 (SR-50). Turn left (east) onto SR-50. The next intersection is SR-50 and SR-405. Turn right (east) on to SR-405 and follow the signs for Kennedy Space Center. You will travel approximately 11 miles on SR 405. The KSC Visitor Complex will be on your right.

Telephone Number: +1-321-449-4444
Distance from ABB Factory: 60 mi (96.6 km)



4. Seminole Towne Center (Mall)

**200 Towne Center Circle
Sanford, FL 32771**














Telephone Number: +1-407-323-2262
Distance from ABB Factory: 3.1 mi (6.0 km)



Directions and Maps from Orlando Int'l Airport to ABB Lake Mary

Total Time: 44 minutes Total Distance: 39.37 miles

A: Orlando International Airport (MCO): 1 Airport Blvd, Orlando, FL 32827

- | | | |
|--|---|---------|
|  | 1: Start out going SOUTH on AIRPORT BLVD toward S ACCESS RD. | 0.9 mi |
|  | 2: Turn SLIGHT LEFT to take the ramp toward TERMINAL B/SR-436/NORTH EXIT/SR-528-TOLL. | 0.1 mi |
|  | 3: Stay STRAIGHT to go onto AIRPORT BLVD. | 1.5 mi |
|  | 4: Take the SR-528-TOLL E exit, EXIT 1A, toward COCOA/KENNEDY SPACE CENTER. | 0.3 mi |
|  | 5: Merge onto FL-528 TOLL E (Portions toll). | 3.9 mi |
|  | 6: Take EXIT 16 toward SR-417-TOLL/TAMPA/ORLANDO. | 0.3 mi |
|  | 7: Take the SR-417-TOLL N exit on the LEFT toward ORLANDO/SANFORD. | 1.0 mi |
|  | 8: Merge onto FL-417 TOLL N/CENTRAL FLORIDA GREENEWAY (Portions toll). | 28.0 mi |
|  | 9: Take the RINEHART ROAD exit, EXIT 54. | 0.4 mi |
|  | 10: Turn LEFT onto RINEHART RD/CR-431B S. | 2.3 mi |
|  | 11: Turn RIGHT onto WALLACE CT. | 0.3 mi |
|  | 12: Turn RIGHT onto CENTURY PT. | 0.1 mi |
|  | 13: End at 655 Century Pt Lake Mary, FL 32746-2137 | |



B: 655 Century Pt, Lake Mary, FL 32746-2137

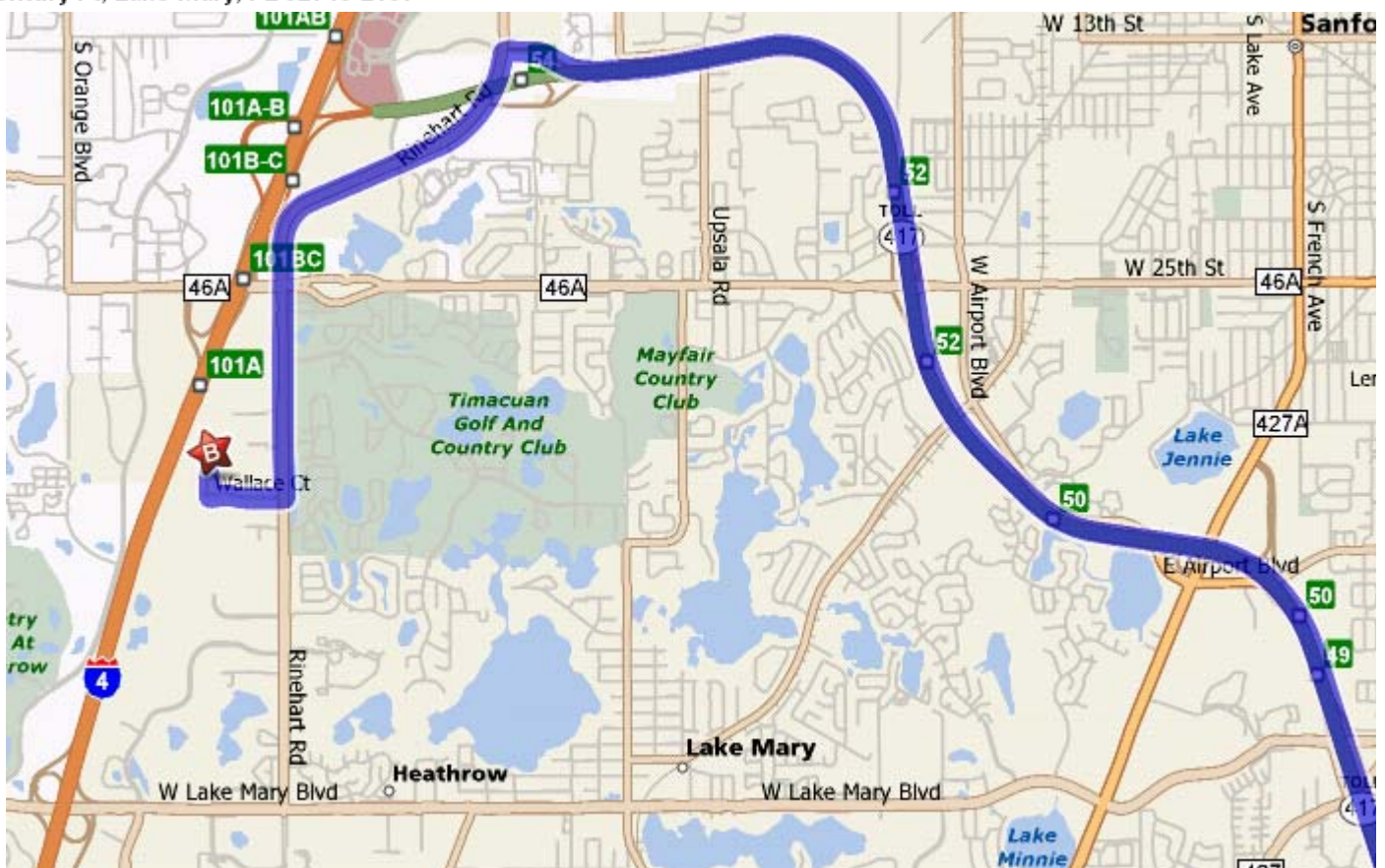




ABB Inc.

655 Century Point

Lake Mary, FL 32746

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Fax: +1 407-732-2029

www.abb.com/mediumvoltage