

ABB Inc.
Distribution Automation
Protective relays and test switches.
2011 Schedule of Training Classes

Course ID	Class Title	Location & Dates	Price per student	Course Description
SCH002	Basic Relay School	Coral Springs, FL; May 3rd-6th	\$1,500	This three and a half day school provides comprehensive relay application principles on distribution protection. Participants learn: 1) Distribution protection, system design and implementation 2) Distribution equipment protection, system design and implementation 3) Apply theory to real system examples 4) Protection theory and practice on microprocessor based and electromechanical relays.
SCH001	Symmetrical components & Fault Analysis	Coral Springs, FL; July 19-21	\$1,500	This three day school is designed to provide a review of phasors, review of per-unit calculation method, and a comprehensive coverage of symmetrical components in power system, their application in relay design, and performance analysis. This school discusses the symmetrical component representation of various power system components, and comprehensively analyzes faults. Participants will learn 1) Mathematical fault analysis techniques 2) Fault calculations and system stability for single-phase and multiple-phase fault scenarios 3) to understand real case examples 4) rapid calculations of how a system will behave under extreme abnormal conditions.
SCH003	Power Systems Protection & Coordination	Coral Springs, FL; May 24th-26th	\$1,500	This three day course covers the fundamental aspects of Power System Protection and Coordination. The basic philosophy and introduction to application problems is also covered. Students will learn basic concepts of protection and also will go into detail of Line, Transformer, Bus, Motor, and Generator protection schemes as well as coordination of protection relays.
RPT006	Electromechanical relays & FT switches	Coral Springs, FL; June 7th-9th	\$1,000	This three-and-a-half day training program is designed for participants to become proficient in application, installation, operation, maintenance, and testing of ABB Electromechanical relays and FT switches. Participants learn how to 1) apply relays for various combinations of fault protection 2) set up relay functions for your specific application 3) maintain relays to perform during their lifetime 4) calibration of relays to precision accuracy 5) understand relay construction 6) do relay troubleshooting.

A 20% discount is granted to registration forms received at least 30 days before the start of the course

A multi-session discount of 10% is granted on the total tuition fee of the same student registering to more than one class during the same calendar year.

To register contact
ABB Inc.
4300 Coral Ridge Drive
Coral Springs, Florida 33065
Telephone: 954-752-6700
Fax: 954-345-5329
e-mail: allschools@us.abb.com