

2019 PROTECTION TRAINING

Doble offers a wide range of protection training courses that will help prepare you for a modern grid, power plant and industrial facility. We can conduct these courses at your facilities, or at one of our training facilities.

READ FULL COURSE DESCRIPTIONS AT events.doble.com/protection

PROFESSIONAL CREDITS

Most of our protection training courses are eligible for NETA Continuing Technical Development Credits (CTDs) as well as IACET certified Continuing Education Units (CEUs). For more information visit http://www.doble.com/earning-ceus/

Doble Engineering Company is accredited as an Authorized Provider by the International Association for Continuing Education and Training (IACET).

COURSES

RTS ESSENTIALS TRAINING

 Two-day training on the basics of RTS and routine creation NETA CTD credits: 16 | \$750

RTS DEVELOPER

 Two-day training on how to create and modify automated relay test routines with the FasTest system & learn RTS commands that are beyond the FasTest system NETA CTD credits: 16 | \$1800

RTS ADVANCED DEVELOPER

 Three-day training on advanced techniques to develop advanced and custom test procedures that are tailored to specific class needs NETA CTD credits: 24 | \$2500

2019 PROTECTION SEMINAR

• The Protection Seminar brings together protection testing topics, training and discussion forums with multiple learning tracks to best fit your needs.

Free with your Doble Protection Software License

SCHEMATIC ELECTRICAL PRINT READING

 Three-days of training on electrical print terminology, symbols, device numbers, & abbreviations, AC/DC control schematics, and power circuit breakers | \$1650

SUBSTATION MAINTENANCE

• Three-day training on the hazards and safety in a substation, concepts of switching in a high voltage yard \$1650

PROTECTIVE RELAYING APPLICATION & TESTING

 Three-day training on protective relay testing applicable for utilities, industrial plants, commercial facilities and power plants

NETA CTD credits: 24 | \$1650

BASICS OF PROTECTION FOR INDUSTRIALS

 Three-day training on protection basics as it applies to industrial plants, commercial facilities and power plants NETA CTD credits: 24 | \$1650

BASICS OF PROTECTION FOR UTILITIES

 Three-day training on protection basics for power utilities NETA CTD credits: 24 | \$1650

ESSENTIALS OF PROTECTION - BEGINNERS COURSE FOR TECHNICIANS

• A must for technicians who are setting out to build a career in relay testing

NETA CTD credits: 24 | \$1400

HARMONICS SIMPLIFIED

 One-day training to gain a working knowledge of harmonics, simple methods to calculate distortion levels, quick hand calculations to calculate resonant frequencies, detailed analysis using software, and a detailed procedure of designing harmonic filters
 NETA CTD credits: 8 | \$800

BASIC HANDS-ON TRAINING FOR THE APPLICATION AND TESTING OF ELECTRO-MECHANICAL & MICROPROCESSOR RELAYS

 Three-day training on testing of simple overcurrent relays such as time overcurrent, under/overvoltage, and over/under frequency electromechanical relays NETA CTD credits: 24 | \$1400

INTERMEDIATE HANDS-ON TRAINING FOR THE APPLICATION & TESTING OF ELECTRO-MECHANICAL & MICROPROCESSOR RELAY

Three-day training on testing of distance, differential, rate
of change of frequency, loss of field, reverse power and
synchronizing relays
NETA CTD credits: 24 | \$1650

ADVANCED HANDS-ON TRAINING FOR THE APPLICATION AND TESTING OF ELECTRO-MECHANICAL & MICROPROCESSOR RELAY

 Three-days of advanced testing training involving communication assisted protection, analysis of event reports, COMTRADE and ss1 files, line current differential, relays, bus differential and out-of-step protection testing NETA CTD credits: 24 | \$2000

IEC 61850 APPLICATION AND TESTING

• One and a half days of training on IEC 61850 NETA CTD credits: 12 | \$1200

FAULT CALCULATION & SYMMETRICAL COMPONENTS

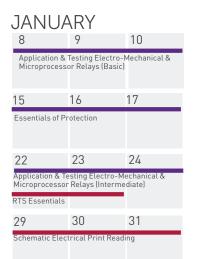
 Two-day training covering fault calculations for various types of short circuit faults that can occur in a power system

NETA CTD credits: 24 | \$1200

GENERATOR PROTECTION APPLICATION & TESTING

 Two-day training on the basics of generator protection testing, including all elements that are typically used in power plant applications
 NETA CTD credits: 12 | \$1200

PROTECTION TRAINING 2019 CALENDAR

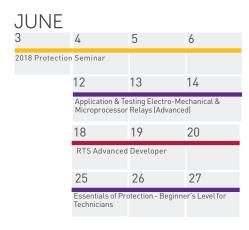




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Developer	
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	13 Developer 16 Testing Electro-Nor Relays (Advance)















NOVEMBER





Diego, CA USA

Event Hosted at Training Facility in Tulsa, OK USA

Event Hosted at Training Facility in Morrisville, NC USA

If you have 8 or more people that your company would like to send to a course, consider hosting it at your facility. Email Doble Events at events@doble.com to find out more information.