

2017 PROTECTION TRAINING

Doble and ENOSERV offer 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 and ENOSERV, a division of Doble, are accredited as an Authorized Provider by the International Association for Continuing Education and Training (IACET).

COURSES

ENOSERV RTS ESSENTIALS TRAINING

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

ENOSERV 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

ENOSERV RTS ADVANCED DEVELOPER• Three-day training on advanced techniques to develop

 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

2016 ENOSERV CLIENT TRAINING SEMINAR

 Three-days of software training taught by industry experts, customer presentations, hands-on learning lab and networking opportunities.
 \$1495

2016 PROTECTION TESTING USERS GROUP MEETING

 Training on all Doble's Protection Suite and ProTesT software, as well as updates on protection testing from the industry's foremost experts.

Free with your Doble Protection Suite or ProTesT 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

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 CALENDAR

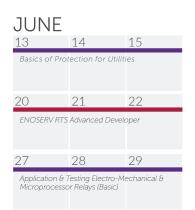
JANUARY 24 25 26 Application & Testing Electro-Mechanical & Microprocessor Relays (Basic) ENOSERV RTS Essentials











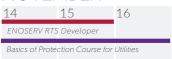








NOVEMBER





VISIT EVENTS.DOBLE.COM/PROTECTION TO LEARN MORE & REGISTER



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.