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/

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 advanced and custom test procedures that are tailored to specific class needs
  NETA CTD credits: 24 | $2500

2016 ENOSERV CLIENT TRAINING CONFERENCE
- Three-days of software training taught by industry experts, customer presentations, hands-on learning lab and networking opportunities.
  $1495 | Register by April 1st for a rate of $1395

RICK ASHTON’S RELAY 101
- Three-days of fundamental training for technicians to understand the function of protective relays in a power system
  NETA CTD credits: 16 | $1650

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 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 AND 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
- **12**: Application & Testing Electro-Mechanical & Microprocessor Relays (Basic)
- **19**: Protective Relaying Application & Testing
- **26**: Application & Testing Electro-Mechanical & Microprocessor Relays (Intermediate)
- **23**: ENOSERV RTS Developer Training

## FEBRUARY
- **2**: Basics of Protection Course for Industrials
- **26**: Basics of Protection Course for Industrials
- **23**: ENOSERV RTS Developer Training

## MARCH
- **8**: Basics of Protection Course for Utilities
- **9**: Substation Maintenance
- **16**: Basics of Protection Course for Utilities
- **22**: Protective Relaying Application & Testing
- **23**: ENOSERV RTS Advanced Developer Training

## APRIL
- **12**: Generator Protection Application & Testing
- **13**: Rick Ashton’s Relay 101
- **19**: ENOSERV RTS Essentials Training
- **26**: Application & Testing Electro-Mechanical & Microprocessor Relays (Intermediate)
- **27**: Schematic Electrical Print Reading

## MAY
- **3**: Fault Calculation & Symmetrical Components
- **10**: Application & Testing Electro-Mechanical & Microprocessor Relays (Basic)
- **17**: Harmonics Simplified
- **18**: ENOSERV RTS Developer Training
- **24**: Application & Testing Electro-Mechanical & Microprocessor Relays (Basic)

## JUNE
- **7**: ENOSERV Client Training Conference
- **14**: Application & Testing Electro-Mechanical & Microprocessor Relays (Intermediate)
- **21**: Application & Testing Electro-Mechanical & Microprocessor Relays (Advanced)
- **23**: ENOSERV RTS Advanced Developer Training

## JULY
- **12**: Basics of Protection Course for Industrials
- **13**: Substation Maintenance
- **19**: Basics of Protection Course for Utilities
- **26**: Application & Testing Electro-Mechanical & Microprocessor Relays (Advanced)
- **23**: Generator Protection Application & Testing

## AUGUST
- **2**: IEC 61850 Application & Testing
- **9**: IEC 61850 Application & Testing
- **16**: Schematic Electrical Print Reading
- **23**: ENOSERV RTS Advanced Developer Training

## SEPTEMBER
- **13**: Rick Ashton’s Relay 101
- **20**: ENOSERV RTS Essentials Training
- **23**: ENOSERV RTS Essentials Training

## OCTOBER
- **4**: Fault Calculation & Symmetrical Components
- **12**: Fault Calculation & Symmetrical Components
- **18**: ENOSERV RTS Essentials Training

## NOVEMBER
- **1**: Generator Protection Application & Testing
- **8**: Application & Testing Electro-Mechanical & Microprocessor Relays (Basic)
- **15**: Application & Testing Electro-Mechanical & Microprocessor Relays (Intermediate)

## DECEMBER
- **6**: Application & Testing Electro-Mechanical & Microprocessor Relays (Advanced)
- **13**: Basics of Protection Course for Industrials
- **19**: Basics of Protection Course for Utilities

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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.