



2019/2020 TRAINING & EDUCATION

Doble is flexible in meeting your training needs around the globe. Find one of our scheduled courses, attend one of conferences or seminars, or inquire about having Doble come to your facility to provide the training your staff needs to navigate today's technologies & state of the art diagnostics.

READ FULL COURSE DESCRIPTIONS AT www.doble.com/training

PROFESSIONAL CREDITS

Most of our 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/>

COURSES

TRANSFORMERS COURSES

TRANSFORMER FUNDAMENTALS

- 3-day course covering transformer design and manufacturing, major components, in-service and off-line electrical testing and insulating oil laboratory testing.
NETA CTD credits: 2.4 | \$1600

CONDITION ASSESSMENT THROUGH LABORATORY DIAGNOSTICS

- One day course on learning to identify and assess rapidly emerging transformer conditions with dissolved gas analysis, oil quality analysis and other diagnostic tools.
NETA CTD credits: 0.8 | \$495

NEW TRANSFORMER PROCUREMENT ENGINEERING BEST PRACTICES

- 3-day course covering new transformer specifications, how to prequalify new and existing transformer manufacturers, factory inspections during manufacturing process, factory acceptance testing, transportation and installation and commissioning.
NETA CTD credits: 2.4 | \$1800

ONLINE PARTIAL DISCHARGE TRAINING

- 3-day course covering conventional IEC 60270 and unconventional field partial discharge diagnostic techniques focusing on transformers, capacitor banks, GIS, power cables, and cable terminations.
NETA CTD credits: 2.4 | \$1800

TRANSFORMER OFF-LINE ELECTRICAL FIELD TESTING

- In-depth 3-day course covering off-line electrical testing of transformers including discussion of each measurement, setup and test methodology and acceptance criteria.
NETA CTD credits: 2.4 | \$1600

SUBSTATION EQUIPMENT

GROUNDING FUNDAMENTALS FOR ELECTRIC POWER SYSTEMS

- 2-day course covering grounding fundamentals, safety, fall of potential and other resistance-to-ground measurement techniques, and in-service tests vs. offline tests during plant shutdown.
NETA CTD credits: 1.6 | \$1200

CIRCUIT BREAKER TESTING FUNDAMENTALS & SF₆ GAS HANDLING

- 4-day course, in partnership with DIL0, covering circuit breaker testing and acceptance criteria and SF₆ gas safety, gas handling equipment and tooling, gas analysis, transportation, regulations and reporting.
NETA CTD credits: 3.2 | \$1800

CIRCUIT BREAKER MAINTENANCE & MECHANISM LUBRICATION

- 3-day course, in partnership with FirstPower Group, covering circuit breaker testing and maintenance and the basics for a breaker mechanism lubrication program.
NETA CTD credits: 2.4 | \$1600

CURRENT TRANSFORMER TESTING FUNDAMENTALS

- 2-day course on CT testing including discussion of each measurement, setup and test methodology and acceptance criteria.
NETA CTD credits: 1.6 | \$1000

CABLES

CABLE DESIGN & DIAGNOSTIC TESTING

- 3-day course covering the entire asset life-cycle for cables including power cable specifications, supplier selection, cable design and manufacturing, factory inspections, acceptance testing and operation and maintenance best practices.
NETA CTD credits: 2.4 | \$1600

ROTATING MACHINES

ROTATING MACHINERY DIAGNOSTIC TESTING

- 3-day course covering rotating machinery off-line and in-service electrical testing including discussion of each measurement, setup and test methodology and acceptance criteria.
NETA CTD credits: 2.4

ASSET MANAGEMENT

RELIABILITY CENTERED MAINTENANCE & PRACTICAL ASSET MANAGEMENT FOR ELECTRIC UTILITIES

- 4-day course covering reliability-centered maintenance theory and practical application training to develop maintenance strategies to improve network reliability and optimize asset life-cycle costs. NETA CTD credits: 3.2 | \$2000

CONFERENCES & SEMINARS

INTERNATIONAL CONFERENCE OF DOBLE CLIENTS

- Premier conference for the electric power industry.
Open to Doble Service Agreement (DSA) clients only.

REGIONAL DOBLE CLIENT FIELD SEMINARS

- For those unable to attend the International Conference of Doble Clients in Boston, Doble has the next best thing – we'll bring it to you!

LIFE OF A TRANSFORMER™ SEMINAR

- Premier training experience on the most critical aspects of large power transformers.

CIRCUIT BREAKER TEST & MAINTENANCE SEMINAR

- Comprehensive 15 – 765 kV circuit breaker application and hands-on training on testing, maintenance and life-cycle management.

PROTECTION SEMINAR

- Brings together managers, engineers and technicians who work in protection testing across generation, transmission and asset management.

TRAINING & EDUCATION 2019/2020 CALENDAR

OCTOBER

29	30	31
Regional Doble Client Field Seminars (MI)		Laboratory Seminar (OH/IN/MN)

NOVEMBER

5	6	
Grounding Fundamentals for Electric Power Systems (CA)		
19	20	21
Circuit Breaker Maintenance & Mechanism Lubrication (CA)		

DECEMBER

	3	4	5
	New Transformer Procurement Engineering Best Practices (NC)		
9	10	11	12
Circuit Breaker Testing & SF ₆ Gas Handling Fundamentals (CA)			
	Laboratory Seminar (ONT, CAN)		Laboratory Seminar (OTT, CAN)

JANUARY

13	14	15	16
Circuit Breaker Testing & SF ₆ Gas Handling Fundamentals (FL)			
	Cable Design & Diagnostic Testing (NC)		
20	21	22	23
RCM & Practical Asset Management for Electric Utilities (NC)			
	Transformer Off-Line Electrical Field Testing (CA)		
28	29	30	
Current Transformer Testing Fundamentals (CA)		Laboratory Seminar (CA/AZ)	

FEBRUARY

10	11	12	13	14
Life of a Transformer™ Seminar (FL)				
				Laboratory Seminar (FL)

MARCH

8	9	10	11	12	13
International Conference of Doble Clients (MA)					

APRIL

21	22	23
Transformer Fundamentals (CA)		
On-line Partial Discharge Training (MA)		
		Laboratory Seminar (CA)
		30
		Laboratory Seminar (TX)

MAY

11	12	13	14
Circuit Breaker Testing & SF ₆ Gas Handling Fundamentals (CA)			
	Grounding Fundamentals for Electric Power Systems (NC)		
19	20	21	
Transformer Off-Line Electrical Field Testing (MA)			

JUNE

1	2	3	4
Protection Seminar (VA)			
8	9	10	11
Circuit Breaker Testing & SF ₆ Gas Handling Fundamentals (FL)			
	16	17	18
	Transformer Fundamentals (TX)		Laboratory Seminar (TX)
23	24		
Current Transformer Testing Fundamentals (CA)			

JULY

14	15	16
New Transformer Procurement Engineering Best Practices (MA)		
21	22	23
Cable Design & Diagnostic Testing (MA)		
Circuit Breaker Maintenance & Mechanism Lubrication (CA)		
		30
		Laboratory Seminar (NY/PA)

AUGUST

	4	5	6
	Grounding Fundamentals for Electric Power Systems (CA)		
	Transformer Fundamentals (NC)		
			Laboratory Seminar (NC)
10	11	12	13
Circuit Breaker Testing & SF ₆ Gas Handling Fundamentals (CA)			
	Transformer Off-Line Electrical Field Testing (TX)		

SEPTEMBER

	8	9	10	11
	Circuit Breaker Testing & SF ₆ Gas Handling Fundamentals (FL)			
14	15	16	17	
RCM & Practical Asset Management for Electric Utilities (NC)				
		30	1	2
	Circuit Breaker Test & Maintenance Seminar (PA)			

OCTOBER

- Training & Education
- Conferences & Seminars

VISIT DOBLE.COM/TRAINING 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.