Eaton is hosting a technology day for data centers on August 15.

You’re invited to experience more than 10 training classes offering PDH and CEU certifications. Many sessions include live demonstrations and new technology discussions that reinforce classroom material. Drop in at any time throughout the day. We look forward to seeing you!

- **Training for** consultants, design engineers, contractors, end users, facility owners and operators, and any individuals working within the data center market
- **Hundreds of products installed** in power distribution and data center applications focused on system design, energy storage, system reliability and energy efficiency

Visit our registration website for more information

Eaton.com/datacenterday2019
Presentation descriptions

**EnergyAware UPS**
PDH Credit: 1 hour
Can the UPS/battery system be made to “do more” than just handle blackouts? See how to make your power protection investment pay for itself.

**Energy storage (lithium/supercaps)**
PDH Credit: 1 hour
Lithium-ion UPS batteries and supercapacitors are here! Learn about the pros and cons of lithium and supercap deployments and get answers to common questions about installations and safety.

**SMB retrofit options – case study**
PDH Credit: 1 hour
It’s time for retrofit vs. “rip and replace!” Is your old parallel UPS near end of life? Learn about considerations around reusing switchgear, battery cabinets, and pipe and wire for your new UPS system.

**9395C – monolithic vs modular**
PDH Credit: 1 hour
Which UPS architecture is best — monolithic or modular-scalable? This session describes the trade-offs for each type and details the technical differences.

**UPS monitoring and diagnostics**
PDH Credit: 1 hour
See the latest capabilities and features of SCADA systems for UPS and switchgear monitoring and controls. Improve system level diagnostics and predictive failure detection with IR monitoring, monitor full systems and switchgear with at-a-glance HMI screens, and minimize the load drop by automating a custom sequence of operations for switchgear.

**DCIM (Advanced software solutions)**
PDH Credit: 1 hour
Are you a data center operator who needs to reduce operational expenses, improve system and application reliability and mitigate risk through data analysis? Do you manage devices across a large geographical area? An evolution in power management has occurred over the last few years. Come learn how to have the ability to streamline operations across your entire infrastructure all from the comfort of your desk chair.

**High density rack PDU**
PDH Credit: 1 hour
With all the features you have come to expect from Eaton’s rack PDUs, the HD rack PDU offers the additional benefits of configurability, improved outlet counts and color chassis options. Designed with data center design in mind, the HD rack PDU helps you make the choices you need to save time, save money and reduce risk.

**Rack mounted UPS solutions (lithium)**
PDH Credit: 1 hour
Learn about lithium-ion based UPS for in-rack applications. This session highlights new UPS products with lithium-ion batteries and provides details on installation requirements, safety and proper disposal/recycling.

**Substation walkthrough**
PDH Credit: 1 hour
This guided tour will focus on the utility substation starting at the 34.5 kV incoming line highlighting the main equipment, including the transformer, capacitor bank, voltage regulators and reclosers. See what options are available for modern substations like VFI, arresters and substation protection and monitoring.

**Microgrid walkthrough (focus on energy storage)**
PDH Credit: 1 hour
See Eaton’s working microgrid in action highlighting energy storage with lithium-ion energy storage, backup generator, solar power and supercapacitors.

Presentation schedule

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<td>9:00am</td>
<td>UPS monitoring and diagnostics</td>
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<td>Predictive analytics: drive the data center of the future</td>
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<td>11:00</td>
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Bold text = confirmed to offer PDH for class
Large transformers for data center applications – case studies
The newly launched arc-reduction VFI transformer is built with the intelligence to reduce incident energy in downstream arc flash zones and mitigate the danger posed by power distribution equipment. Utilizing a microprocessor-based relay system, anomalies are sensed and transmitted through the integral control package to isolate the downstream equipment in four cycles or less clearing time, maximizing electrical safety and system reliability.

PSE data center case studies (snubbers, arc flash, PQ audits)
PDH Credit: 1 hour
Learn how you can optimize reliability, efficiency and electrical safety with power system studies of your data center. This class will highlight arc flash, coordination, load flow and harmonic studies as well as more advanced topics like transient studies and applications of snubbers illustrated with case study examples.

Predictive analytics: drive the data center of the future
PDH Credit: 1 hour
Explore how Eaton developed an IoT predictive analytics subscription service for UPS to provide real-time 24x7 monitoring of sensor data and predict the risk of components failure. Understand downtime risks, causes of component deterioration, asset optimization and future applications of data driven, condition-based maintenance.

Power defense breakers – new options for monitoring
This presentation will discuss a new innovation in molded case breakers that helps you monitor and protect your electrical system like nothing you’ve seen in the past. Power Defense breakers can allow you to view and adjust settings, set ARMS and meter your loads with a fully integrated electronic package built into a molded case breaker. Think of the possibilities with this level of monitoring and protection at panelboards and switchboards in your data center.

Foresee and PX meters
Eaton’s Foresee software and Power Xpert metering give you a view into your data center to watch and maintain service continuity and efficiency. See how these tools can help you operate your facility safely and securely.

Data center live demos
See live demonstrations of the 9395 UPS in ESS, VMMS and double conversion modes; the 93FM with supercapacitors; and 48V DC rack mounted power.

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EATON Event schedule
Our Experience Centers step customers through power system applications from generation to the receptacle and offer industry-specific education with hands-on demonstrations of Eaton’s entire line of electrical products. These applications offer insight into design, technology and installation practices of the products within each application.

Applications to look forward to
- Utility substation and distribution
- Microgrid
- Data center applications
- Power quality lab
- Switchgear solutions
- Transfer switch solutions

For more information please visit:
Eaton.com/psec