The Alphabet Soup of Accreditation for NERC Certification and Professional Engineer Licensing

Renee W. Devine
Senior Manager Technical Training
renee.devine@siemens.com

To assist our customers in preparing for and maintaining professional licensure, Siemens Power Academy Transmission & Distribution in North America (Siemens Power Academy TD – NA) courses are approved for professional development hours (PDHs) and continuing education units (CEUs) by the New York State Department of Education. This allows professional engineers (PEs) and other industry professionals such as system operators easy access to courses they need to meet the annual educational requirements necessary to retain their professional licenses.a

Also, to address FERC Order No. 693, which may result in more facilities and more personnel needing to meet NERC reliability standardsb,c, Siemens Power Academy TD – NA has pursued and received NERC accreditation for several courses. Attendees can now receive credit hours in NERC Standards, Simulation, and Professional Development.

The goal in NERC certifying our courses is to provide system operators with access to course content that seeks to expand and enhance their knowledge beyond the operations floor. While many in-house NERC training programs are great at meeting the minimum requirements, operators and companies alike are eager to gain access to a more diverse set of course choices; not only courses that meet compliance requirements but also courses that help engage, retain and grow the ranks of qualified employees.

Below is a list of NERC-approved courses currently offered through Siemens Power Academy TD – NA:

- **PSEC 535 Power System Studies for Wind Integration** – NEW
  NERC Approved (23 hours - Standards, 4 hours - Simulation, 27 PDHs)

- **PSEC 505 Power Flow Analysis with Applications** – NEW
  NERC Approved (27 hours - Standards, 5 hours - Simulation, 27 PDHs)

- **SSOT 310 Reliability Operator Standards and Operating Review**
  NERC Approved (7 hours - Standards, 5 hours - Emergency Operations Planning, 12 PDHs)

- **SSOT 320 Balancing, Interchange, and Transmission Operator Standards and Operating Review**
  NERC Approved (9.5 hours - Standards, 5 hours - Emergency Operations Planning, 16.5 PDHs)

- **SSOT 330 Balancing and Interchange Operator Certification Standards and Operating Review**
  NERC Approved (8 hours - Standards, 4 hours - Emergency Operations Planning, 13.5 PDHs)

- **SSOT 340 Transmission Operator Standards and Operating Review**
  NERC Approved (9.5 hours - Standards, 5 hours - Emergency Operations Planning, 16.5 PDHs)

- **SSOT 400 Advanced System Operation Courseware (ASOC™)**
  Computer-based training with draft individual learning activity (ILA) forms available for authorized training providers.
  The ASOC™ curriculum includes:
  - Voltage & Vars - 12 CEHs (NERC continuing education credit hours)
  - System Frequency - 8 CEHs
• Automatic Generation Control - 5.5 CEHs
• Voltage Dynamics & Control - 7 CEHs
• Power System Restoration - 8 CEHs
• Power Flow - 7 CEHs
• Resource Scheduling - 8 CEHs
• Power System Monitoring & Control - 8 CEHs
• Frequency Dynamics & Control - 8 CEHs

Additional Courses Pending NERC Approval in 2010:
  PSEC 635 Power System Scheduling and Operation
  PDEC 500 Introduction to Distribution Systems and Power Circuit Analysis
  PDEC 630 Low-voltage Secondary Networks
  PSEC 510 Analytical Methods for Voltage Control and Reactive Power Planning
  PDEC 563 Understanding System Losses

Give Siemens Power Academy TD – NA a call, and we'll help you weed through the alphabet soup of accreditation.

---


b More facilities and more employees will be subject to understanding and meeting NERC reliability standards. Source: Docket No. RM09-18-000 referencing FERC Order No. 693 and Item E-8.

c “The Commission proposes to direct the Electric Reliability Organization (ERO) to revise its definition of the term ‘bulk electric system’ to include all electric transmission facilities with a rating of 100 kV or above.” Source: http://www.ferc.gov/industries/electric/indus-act/reliability.asp.