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PSSC 525

PSS®E Fast Track Introduction to Steady State and Dynamics using PSS®E

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At a glance

PSS®E – Fast Track Introduction to Steady State and Dynamics using PSS®E

PSS®E is an intensive hands-on course for power system engineers interested in learning the basic functions of PSS®E Power Flow and Dynamics in a condensed format. This course will help users get started with power flow data entry, solution and report, and apply data checking functions in PSS®E to identify power flow modeling issues. In addition, participants will understand how to set up a dynamic simulation database in PSS®E, perform simulations of different types of disturbances and produce plots of key variables for analyzing transient and dynamic stability behaviors of the power system.

PSSC 525 course participants will:

- Learn the essentials of PSS®E Power Flow, including data categories, data entries and modifications, solution algorithms, and tabulated and graphical reports

- Become familiar with different components of the Graphical User Interface, including toolbars, network tree diagrams, plots and report windows
- Employ data checking functions to identify suspicious modeling parameters
- Use program automation tools to facilitate calculation and reporting tasks
- Understand the basic procedures of automatic contingency analyses and transfer limit calculations
- Learn the steps in balanced switching calculations
- Explore fault analysis basics, including system modeling, setup and calculation options
- Understand the method used within PSS®E to perform dynamic simulation
- Learn how to prepare a dynamic simulation database, check data, perform simulations of system disturbances, and plot results of key variables.

Upon completion of the course, participants will be able to immediately

begin study work using PSS®E for steady state and dynamics analyses.

Prerequisites

Participants must be employees of a company that is a current lessee of PSS®E. General knowledge of the power system, symmetrical component theory of poly-phase systems, fundamentals for modeling power plant equipment and network protection systems in the dynamic simulation timeframe is expected.

Course structure

This is a five-day course. Material is presented in both morning and afternoon sessions for a total of six hours of daily instruction. Standard course hours are 9:00 a.m. to 4:00 p.m. each day.

To view the PSSC 525 Course Schedule on the web:

https://siemens.coursewebs.com/cart/pageCourseInfo.aspx?Course_ID=PSSC_525

Instructors

All courses offered through Siemens Power Academy are developed and taught by leading industry engineers. In addition to their proven instructional ability, our engineers have advanced degrees complemented by first-hand knowledge and experience solving power system problems throughout the world.

Continuing Education Units (CEUs), Professional Development Hours (PDHs):

Licensed engineers, on a voluntary or mandated basis, attend continuing professional education for licensure renewal to ensure competency. All courses offered through Siemens

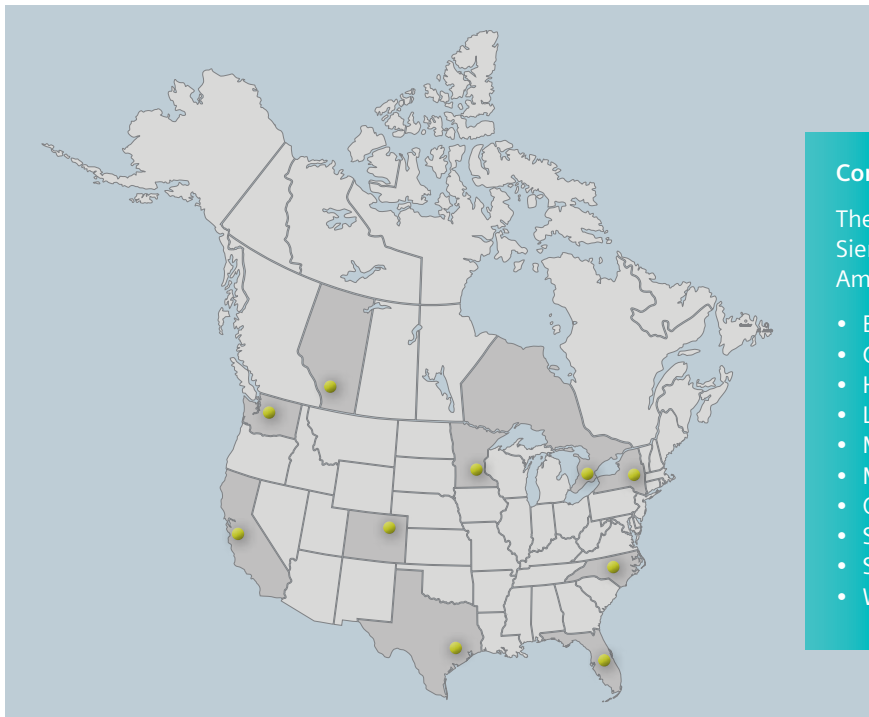
Power Academy meet the requirements for CEUs and PDHs.

- Continuing Education Units (CEUs) are the nationally recognized units for recording participation in professional development and noncredit educational programs. Participants completing this course will be awarded CEUs based on the instructional hours of the course: one CEU is awarded for 10 classroom hours of instruction.
- Professional Development Hours (PDHs) – Continuing education training for the Professional Engineer (PE) – that needs to earn annual Professional Development Hours

(PDHs). Through our instructor-led training, participants earn one PDH for each one hour of instruction. The participant is responsible for maintaining records of courses taken in support of licensure.

Client site and custom training

All courses are available for presentation at any client's location by special arrangement. At client sites, it is recommended that sufficient computer terminals be available to enable a fully interactive and productive class, if applicable. Client site courses can also be tailored to address specific topics of local importance.



Convenient training locations

The course is scheduled on a regular basis at Siemens offices located throughout North America, including:

- Burlington, Ontario, Canada
- Calgary, Alberta, Canada
- Houston, Texas, USA
- Littleton, Colorado, USA
- Minnetonka, Minnesota, USA
- Mountain View, California, USA
- Orlando, Florida, USA
- Schenectady, New York, USA
- Seattle, Washington, USA
- Wendell, North Carolina, USA

Contact us

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