

## Siemens Power Academy TD

# PSS®E – Dynamics Simulation

PSSC 550

### At a glance

An intensive hands-on course, **Dynamics Simulation** is designed to familiarize new users with the Dynamic Simulation features of the PSS®E program, and to explore how different types of disturbances can cause systems to behave in certain ways through analysis of system response outputs from PSS®E dynamic simulations.

In **PSSC 550**, participants will learn to:

- Understand the basic logic flow and setup of dynamic simulation
- Perform model data checking and editing
- Simulate the power system response to disturbances
- Plot results
- Investigate simulation options available within PSS®E, e.g., scan for out-of-step conditions, buses outside voltage range, and set relative machine angles
- Append new models to an existing simulation setup
- Compile and create user DLL files
- Simulate the operation of relays
- Use standard models from the model library and/or user-written models
- Create and manage scenarios and event studies

Upon completion of this course, PSS®E users will be acquainted with the commonly used program functions in sufficient detail for them to begin study work involving dynamic simulations.

### Prerequisites

Participants must be employees of a company that is a current lessee of PSS®E. Knowledge of the basic functions of PSS®E load flow is required. It is assumed that participants are familiar with the basics of generator, turbine, control and network protection models.

### Course structure

This is a four-and-one-half-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, except the last day, which concludes at noon.

### To view the PSSC 550 Course Schedule on the web:

[https://siemens.coursewebs.com/siemens/pageCourseInfo.aspx?Course\\_ID=PSSC\\_550](https://siemens.coursewebs.com/siemens/pageCourseInfo.aspx?Course_ID=PSSC_550)

### 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):

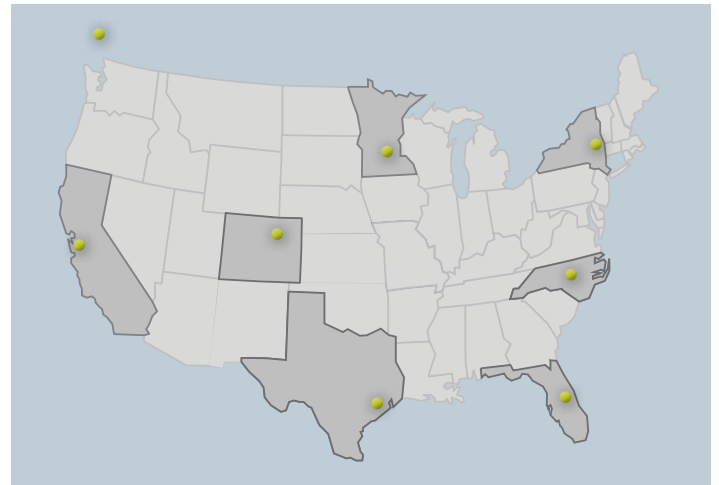
Licensed engineers, on a voluntary or mandated basis, attend continuing professional education for licensure renewal to ensure competency. All courses offered through Siemens Power Academy meet the requirements for CEUs and PDHs.

- 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.

### Convenient training locations

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

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



### 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.

### Contact us

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