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PSSC 550 Online

PSS®E Dynamics Simulation

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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

To make it easier to accommodate today's busy schedules, we converted the course delivery to 2.5 hr. daily afternoon online sessions (1:00 PM – 3:30 PM EST) over a 2 week period.

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

https://siemens.coursewebs.com/cart/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.

Client and custom training

All online courses are available to a client and their staff by special arrangement. It is recommended that each participant has the PSS®E software loaded on their computer prior to the online course delivery. We will supply temporary licenses to those who do not have permanent licenses for the duration of the online course. Client online courses can also be tailored to address specific topics of local importance.

Contact us

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