SIEMENS

Siemens
Power Academy

PSS®E – Using Python™ to Integrate PSS®E Workflow

PSSC 600

At a glance
Increase your PSS®E productivity and efficiency by developing your own Python™ scripts to perform everyday PSS®E tasks.

In **PSSC 600** participants will:

- Gain a good understanding of the basics of the Python language
- Learn to define Python variables and Python structures, create Python modules, structure Python code and control code execution
- Learn how to run PSS®E from a Python development environment outside of the PSS®E GUI
- Discover different ways to use Python to drive PSS®E and practice using the PSS®E APIs
- Practice writing useful scripts, such as looping through network elements in a system to make data changes
- Explore the extension modules and other Python tools available in PSS®E
- Learn how to incorporate third-party scientific and plotting libraries into individual applications
- Understand how Python can be embedded into another application
- Explore advanced Python programming possibilities to extend PSS®E capabilities and features
- Learn how to export PSS®E data and activity results to other programs such as Microsoft® Excel
- Learn to create customized PSS®E reports and graphical user interfaces using wxPython

Upon completing **Using Python to Integrate PSS®E Workflow,** those who have never used Python before will be able to create their own scripts, and more experienced Python users will be able to increase their PSS®E efficiency and to make their Python code easier to use and maintain.

Prerequisites
Participants must be employees of a company that is a current lessee of PSS®E. Participants should be knowledgeable in the basic operations of PSS®E programming and be proficient in one or more programming languages. Familiarity with personal computers and text editors is essential for hands-on work.

Course structure
This is a three-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 600 Course Schedule on the web:
https://siemens.coursewebs.com/siemens/pageCourseInfo. aspx?Course_ID=PSSC_600

Answers for infrastructure and cities.

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.

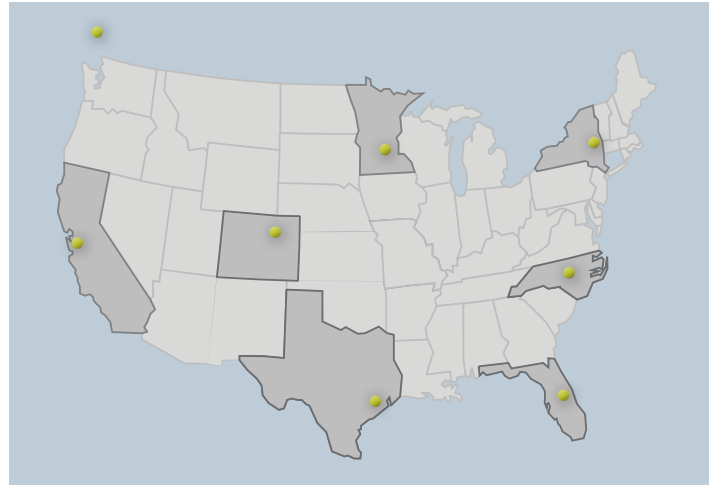## Continuing Education Units (CEUs), Professional Development Hours (PDHs):

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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