



SIEMENS

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PSSC 650

PSS®E and Python® Integrating Workflow – (Part 2 Advanced)

Siemens Power Academy TD - NA • usa.siemens.com/pti-education

At a glance

In the **PSS®E and Python® Integrating Workflow (Part 2 – Advanced)** course participants will learn advanced capabilities of the Python language through instruction including hands-on development projects.

PSSC 650 course participants will learn advanced Python programming including:

- Object-oriented Python: such as objects, classes, and inheritance
- Build custom GUIs (graphical user interfaces) using wxPython
- Explore scientific programming in Python with NumPy and SciPy.

Instructors will guide teams of participants through two complex, real-world projects:

- Project 1: Contingency Analysis Application
 - Build contingency definitions programmatically
 - Simulate contingencies with Python
 - Generate violation reports directly in Microsoft® Excel.
- Project 2: Dynamics Simulation Application
 - Set-up and run dynamics simulations with Python
 - Determine the critical clearing time for a point of interconnection
 - Produce plots for results automatically.

Upon completing this course, the participant will have the tools needed to write advanced programs in Python to drive PSS®E and process the output.

Prerequisites

Participants must be employees of a company that is a current lessee of

PSS®E. It is highly recommended that participants attend the first course in the series, PSS®E and Python® Integrating Workflow (Part 1 – Intro), before attending this advanced course. Participants should be comfortable with the Python language essentials and should be experienced users of PSS®E.

Course structure

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

To view the PSSC 650 Course Schedule on the web:

https://siemens.coursewebs.com/cart/pageCourseInfo.aspx?Course_ID=PSSC_650

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

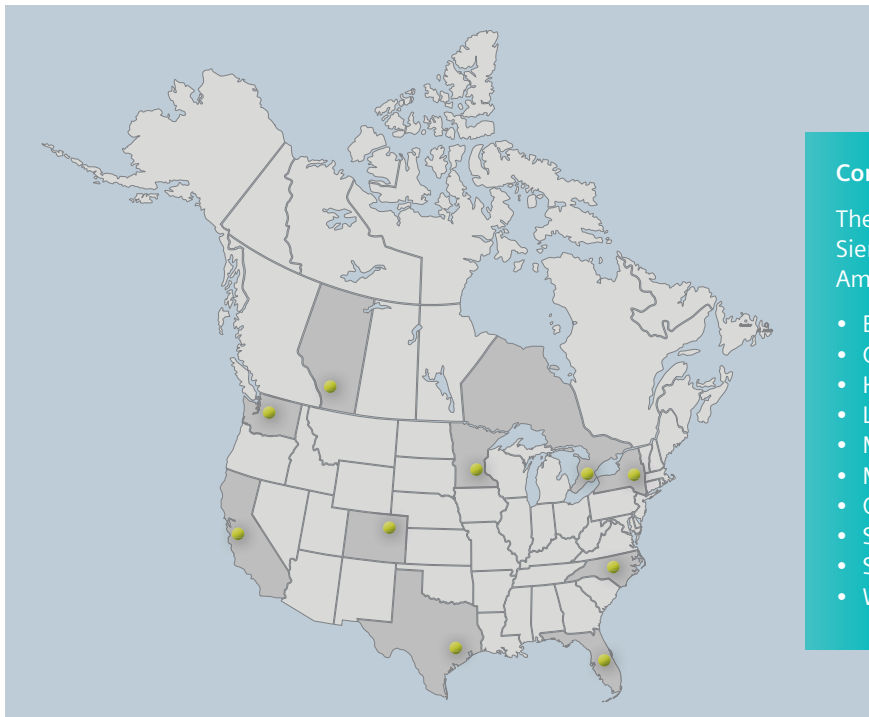
Power Academy meet the requirements for CEUs and PDHs.

- 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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