



Short Course for Using SimAutoWrapper with Python and PowerWorld

A one-day class for those familiar with Power World and with power system dynamics experience on any platform.

Objectives

- Use Python SimAutoWrapper (via SimAuto) to conduct steady state and dynamic simulations
- Use Python to save transient results to hard drive and process the binary files to get results.
- Find variable names for SimAuto objects
- Format, construct, and implement .aux files using the PowerWorld GUI and via SimAuto
- Add and modify grid new components to your model
- Read and modify Power World parameters and variables using Python
- Set up and run Power World using parallel processing

Prerequisites

- Experience running Power World *and* you have run dynamics on any platform (e.g. PSLF)
- Basic working knowledge of Python, Pandas, Numpy
- Bring your govt laptop with PowerWorld Version 24 and SimAuto,
- Transient Stability, Visual Studio Code installed
- Additional laptop setup required before class starts
- Check that saw.py is properly installed by running the 'test code'

[Click here for access to pre-class materials](#)

When

June 17th, 2026
8:00am – 5:00pm

Location

Sandia Labs
Building 6585 Rm 111/112

Cost

Free

Register by email to
rguttro@sandia.gov no later
than May 15th, 2026

For LANL:

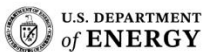
- Due to badging restrictions, US Citizens only
- Sandia site access permissions will be managed after registration

Space is limited to 40 people



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