



POWER ANALYTICS™

Modeling and Design of Photovoltaic Systems **Training Course DB-372**

About the Course:

Power Analytics' PV modeling course is a 6-hour, online workshop that covers PV modules, equivalent circuit, generic model of PV and modeling of photovoltaic systems for power system integration studies. Several numerical examples are provided during the course. The course will cover:

- 1.1 PV modules and PV arrays
- 1.2 Equivalent electrical circuit
- 1.3 Photovoltaic curves: (I-V) and (P-V)
- 1.4 PV array design
- 1.5 PV operation: peak power operation
- 1.6 Generic model of PV systems
- 1.7 Power flow model of PV system
- 1.8 Short circuit model of PV system
- 1.9 Dynamic model of PV system: open source application programming interface (API)
- 1.10 Guideline for PV integration in power system studies

Why You Should Attend:

1. You will understand basic concepts of power system analysis and operations
2. Have opportunity to get the latest information on photovoltaic systems design and modeling
3. Gain a better understanding of photovoltaic system operation and modeling
4. Attain a higher level of confidence to model and conduct power system studies with PV system, PV penetration guidelines

Prerequisites:

- Basic knowledge of electrical circuits
- Power systems experience a plus
- Web connection with permission to access GoToMeeting, or other online provider



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(858) 675-9211



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Course Fees and Registration:

Contact Jadranka Bozinovska at Power Analytics to reserve your spot! Accommodation information will be provided at time of registration.

Total Course Length: 6 hours (Split over 2 days)

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Modeling and Design of Photovoltaic Systems Training Course #DB-372. Rates for 2014 are \$500 per student.



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