

# Engineering Courses

## Transmission Planning and Analysis

### Training objectives:

Due to the broad scope and many challenges involved in modern transmission planning, this course provides the participants with the concepts and tools used during the transmission planning process. Participants will be taught through lectures and with hands-on participation in an interconnection study exercise.

### The course is intended for:

This class is intended for engineers, planners and consultants who need a better understanding of the challenges faced and procedures used in the transmission planning process.

### Main features:

- Outline of the transmission planning analysis process
- Modern challenges faced with transmission planning analysis
- Understanding reliability concepts and defining planning criteria
- Introduction to analytical methods and modeling
- Power flow analysis
- Transient/Dynamic stability simulations
- AC contingency analysis
- PV analysis
- Transfer limit analysis
- Use of learned analytic methods on an actual transmission system model to illustrate the study process on the interconnection of a merchant power plant

### Recommended prior knowledge:

Basic knowledge of electrical engineering and computers.

**Note: The course is held in English. Class subject to change. Class times are 8-4.**

For more information visit: [www.geenergyconsulting.com](http://www.geenergyconsulting.com)

