Energy Consulting

Engineering Courses

Surge Analysis & Equipment Application

Training objectives:

Participants will learn about the nature of switching and lightning surges, methods of overvoltage control and protection, and coordination of overvoltages with equipment insulation, in order to make equipment application decisions that help promote safety and reliability. Participants will acquire knowledge and skills to quantify transient voltage stresses from the electrical environment.

The course is intended for:

Engineers and technicians who work for transmission and distribution companies, power supply companies, and energy users, who are responsible for power system planning, protection, substation design, and plant operations.

Main features:

- Characteristics of equipment insulation
- Standards and test specifications that establish insulation strength
- Origins of power system overvoltages (temporary, switching, and lightning)
- Methods of overvoltage control and protection
- Insulation coordination and equipment application
- Safety and reliability aspects
- Practical examples of power-system transient problems and solutions

Recommended prior knowledge:

Basic knowledge of electrical engineering, power system analysis and symmetrical components.

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

For more information visit: **www.geenergyconsulting.com**

Power Systems & Energy Course | PSEC