Energy Consulting

Engineering Courses

Protective Relaying:
Fundamentals (4 Day) or Overview (2 Day)

Training objectives:
The participants will learn the fundamentals of power system protective relaying. They will learn the art and science in the application of protective relays in electric power systems. This includes applications for rotating machinery, transformers, buses, transmission, distribution and utilization systems. Impact of inverter-based resources on protection systems will be discussed.

The course is intended for:
Engineers working for utilities and related "power" industries that are responsible for the application of power system relaying.

Main features:
- Power system overview and analysis of fault conditions
- Impact of Inverter-based resources on relaying
- Evolution of protective relaying technologies
- Instrument transformer operating principles and applications
- Generation protection for fault and abnormal conditions
- Transformer protection
- Transmission line protection
- Distribution system protection
- Motor protection
- Bus protection and Breaker failure protection
- Introduction to IEC 61850 (Fundamentals course only)
- Microgrid protection (Fundamentals course only)

Recommended prior knowledge:
Basic knowledge of power systems analysis.

Note: The course is held in English. Class subject to change. Class times are 8-5.

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

Power Systems & Energy Course | PSEC