

# POWER SYSTEM DISTURBANCE ANALYSIS

## OVERVIEW

Analysis of power system disturbances is an important function that monitors the performance of a protection system. It can also provide a wealth of valuable information regarding correct behavior of the system. This course facilitates understanding power system phenomena and improvement in operating limits and protective relaying practices. Review of Digital Fault Recorder and Numerical Relay fault records for system operation can help to isolate incipient problems that will allow corrections before developing a serious problem. Also, understanding power system oscillations and system relaying response during a power swing condition can be enhanced. The course discusses generator, transformer, transmission line, cable, breaker disturbances through several case studies.

## TARGET MARKET

- Power System Operators
- Electrical Utility Engineers & Technicians
- Power System Consulting Engineers
- Power Plant Engineers
- Utility (TNB/IPP) Managers
- Transmission System Engineers
- Utility Protection Engineers

## COURSE OUTLINE

- Module 1: Disturbance Analysis Function
- Module 2: Fault Clearing Process
- Module 3: Protection Performance
- Module 4: Case Studies on Generator Disturbances
- Module 5: Case Studies on Transformer Disturbances
- Module 6: Case Studies on Transmission Line Disturbances
- Module 7: Case Studies on Cable Disturbances
- Module 8: Case Studies on Breaker Failure Disturbances

## OBJECTIVES

- To analyze power system disturbances using digital fault records and investigate the nature of faults and their impact on relay system performance.
- To discover latest strategies and techniques needed to detect and resolve problems that could lead to blackouts to ensure smooth operation and reliability of power system.
- To enhance knowledge and skills require to improve power system performance through discussion and analysis of practical case studies.



**SBL CLAIMABLE**



If you have any enquiries, please contact:

+60 (3) 5621 3630 or email:

[info@comfori.com](mailto:info@comfori.com)