

Facilitated By International Facilitator:

MR. BARRIE MOOR

Principal Engineer at Power System
Protection Training, Australia



39 years experience in the Queensland Electricity Transmission Supply Industry 30 years experience in the discipline of Protection Design 20 years experience in Post Graduate Electricity Supply System Training IEEE Certificate_SmallWith over 39 years experience in the Queensland electricity transmission supply industry, our principal engineer, the training author and presenter, Barrie Moor, has been involved in the design, coordination and implementation of protection schemes associated with Queensland's HV and EHV transmission systems since 1981.

Barrie also has extensive experience with the protection of large generating plants having had responsibility for the protection of generators at many of Queensland's major power stations. From 2000 to 2007, Barrie filled the role of Senior Engineer Protection Design, with statewide responsibility, leading Powerlink's Protection Design Team. From 2007 to 2012, in the role of Principal Consultant Substation Protection, and then Principal Engineer Investigations, Barrie provided specialist Protection Design and Fault Analysis services to support the Asset Management and Operational Groups within Powerlink.

QUT Certificate Barrie has 20 years experience within Australia and internationally in the provision of university post graduate training on the design and implementation of HV and EHV Transmission Protection Systems. He has presented a number of papers on specialised aspects of protection design at conferences both within Australia and internationally.

Barrie had, but has relinquished RPEQ registration with the Board of Professional Engineers Queensland. He has also represented Powerlink on CIGRE committee APB5, Power System Protection and Automation, and has served as a corresponding member of Cigre and IEE working groups on Protection Systems.

- Fundamental Concepts of Power System Protection
- Introduction to Fault Calculations and Sequence Components
- Fuses, Over Current and Earth Fault Protection
- Introduction to Voltage and Current Transformers
- Introduction to Distance Protection
- Introduction to High Impedance Differential Protection
- Introduction to Transformer Protection
- Introduction to Low Impedance Busbar Differential Protection
- Introduction to Feeder Differential Protection
- Introduction to AC Synchronous Generator Protection
- Generator Faults

This seminar is specifically designed to provide a fundamental understanding of power system protection design. It is ideally suited to meet the career needs of those newer to the areas of protection design while providing valuable insights for those who are more experienced in the area of protection design.

This seminar has been purpose designed to focus on the high level principles of protection design. The more complex and mathematical aspects of protection design have thus been purposely excluded. The technical discussions and principles are reinforced with many real life examples and experiences from the seminar coordinator's personal experience, covering 4 decades specifically in the area of electrical power system protection design

This seminar will assist those whose day-to-day work directly involves them in the applications of protection design, coordination and relay settings. And, in addition, it will also provide a valuable and necessary insight into these principles for those in the associated areas of electricity power system design.