

PESTC: Advanced Power System Protection (EEP212)

Expand your expertise and deep dive into the protection systems required to deliver safe and reliable electricity generation, transmission, and distribution.

This course equips participants with a comprehensive understanding of sophisticated high voltage transmission and distribution protection systems. Building on EEP211 "Basic Power System Protection," this program delivers a complete reference for the protection of rotating plant motors, including synchronous generators and large induction motors. Designed for those who work daily with protection design and people working in associated areas of transmission system design, this course covers the application of modern microprocessor-based relay technology and older electronic and electromechanical relays. With a focus on maximising safety for the general public and electricity industry employees.

 Duration: 2.5 Days

 Certificate of Completion plus assessment results

 Cost: From \$1,620

Apply Now

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With a balance of theoretical and practical examples, this course creates a shared learning environment for participants to advance their knowledge of high voltage transmission and distribution protection systems. This course is delivered via intensive face-to-face delivery of core content, notes, further readings, and collaborative dialogue. Using a discursive and case study approach, this course encourages participants to be active in discussions with peers and university/industry experts. By utilising real-world examples and assessments, this course gives students the ability to confidently apply theoretical protection systems principles in their daily working life.

Core concepts

On completion, participants will confidently describe the principles, specify the functionality and determine high-level (non-relay specific) protection schemes and settings of;

- Transmission and distribution power system plants, including high voltage busbars, transformers, feeders (differential protection), and capacitor banks;
- Transmission and distribution power system autoreclosing schemes;
- Large induction motors; and
- Large synchronous generators.

Who should participate?

This course is designed to advance the understanding of engineers working within the power sector. It is a requirement of this course that you have a sound understanding of electrical transmission technology, an adequate level of design computation knowledge, and a working knowledge of power system engineering. There are no pre-requisites however participants would benefit from completing courses EEP211 "Basic Power System Protection" and EEP205 "Power System Fault Calculations."

This course will benefit;

- Planning Engineers
- Maintenance Engineers
- Circuitry Design Engineers
- Protection Application Engineers

Your expert facilitator **Barrie Moor**

Barrie Moor has over 39 years of experience in the Queensland electricity transmission industry, he 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 and in the provision of university post-graduate electricity supply system training.

Cost

Early Bird registration	\$1,620 (inc. GST)
Standard registration	\$1,800 (inc. GST)
QUT Alumni registration	\$1,350 (inc. GST)
Group registration (5 or more)	\$1,620 per person (inc. GST)

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