Power system studies: planning and analysis

Objective
- Understand the modelling of power systems and the main concepts of power flow studies.
- Learn and practice the basics of stability, short circuit and protection analysis.

Audience
Personnel from power utilities, power generation, transmission companies and industries and consultants responsible for the system design, planning and engineering of power systems.

Course topics
- Fundamentals of power system studies
- Modelling of power system components and networks for various studies
- Load flow studies
  - Voltage profile calculations and influencing factors, modelling and case studies
- Contingency analysis & optimal power flow
- Power system general
  - Fault calculation
  - Shortcircuit current calculation
- Short circuit studies
  - Z bus matrix and symmetrical components
  - Balanced and unbalanced faults
- Transient stability analysis
- Voltage stability analysis
- Basics of power system protection and devices
- Integration of wind farms in utilities
- IEEE and IEC standards
- Power system study tools
- Case studies
Date and Location
- Date: April 21st – 24th
- Class time: 08h30 - 14h30
- Location:
  ABB Power Grids UK Limited
  Power Consulting
  Oulton Road Stone,
  Staffordshire ST15 0RS
  United Kingdom

Price
2500 € per person

Registration
Register here: madrid.abbuniversity@es.abb.com
Please register before April 7th

Contact us
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For more information

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