GENERATOR EXCITATION CONTROL SYSTEMS
½-day Training Course

WHAT WILL I LEARN?: After this training course power engineers will know the principle of operation of an automatic voltage regulator (AVR), an excitation system and a power management system (PMS). In this unique course we will pay attention to applications from simple gensets, to larger generators and to complex systems with multiple generators.

SCHEME: A Brush Prismatic excitation controller will be the example. The trainer has experience with the MicroAVR, A30, A10, A12 en A32.

COURSE CONTENT:
• Static and Brushless Excitation Systems
• Stand-Alone Operation - constant voltage and speed
• Island Operation - droop, influence of unit transformers
• Parallel Operation with the Utility
• Functions of a Power Management System (PMS)
• Synchronisation Systems
• Specifications of an Excitation Control System
• Regulation Loops (voltage, power factor, VAR, field current)
• Limiters
• Excitation System Monitoring (60FL, 58, 64R)

WHO SHOULD ATTEND?: Electrical engineers with general computer skills and some knowledge of power systems.

TRAINER: Hans Stutvoet MSc

LANGUAGE: English or Dutch

HAND-OUTS: Manual of the specific AVR (in PDF-format) will be used for reference.

DATE & LOCATION: This half-day training course is offered as an internal company course. The course dates will be determined in concert.

COURSE FEES: On request (depends on location and number of participants)

MORE INFORMATION: Call +31 6 22992403 or email hans.stutvoet@svri.nl