Dynamic Controller Modelling (DSL)

Objective:

The two-day training "Dynamic Controller Modelling" complements the DIgSILENT "Power System Stability" training course. The whole procedure of translating a physical system into a set of mathematical equations and implementing it using the PowerFactory simulation language DSL (DIgSILENT Simulation Language) will be introduced and practiced.

Various aspects of the DSL language, like the description of differential equations, issuing simulation events, coding dead-times etc. will be introduced systematically and each participant will practice extensively the implementation process of various DSL models.

Pre-requisites:

o **MUST have attended the PowerFactory Basic course**
o A good working knowledge of the basic techniques used in PowerFactory.
o Each participant should have basic knowledge about the PowerFactory software being familiar with the PowerFactory time domain simulation functions ("RMS-simulation" or "EMT-simulation") is also required for successfully participating in this workshop.

No of participants: Minimum: 6; Maximum: 12.

Schedule and Cost:

Please visit https://www.digsilent.co.za/training-courses/ for the latest scheduled course dates and costs.
PowerFactory license, for the duration of the training course, is included.
Please note the booking clauses on the registration form.

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CPD Points: 2

Duration: 2 days

Topics to be covered:

o   Introduction to DSL

o   Calculation of Initial conditions

o   Simple Excitation System – Exercise

o   Turbine and Governor modelling

o   Static VAR compensation

o   Switched Shunts

o   TCR / Statcoms