

NETGroup Academy



Power Plant and System Protection Engineering

Course Overview

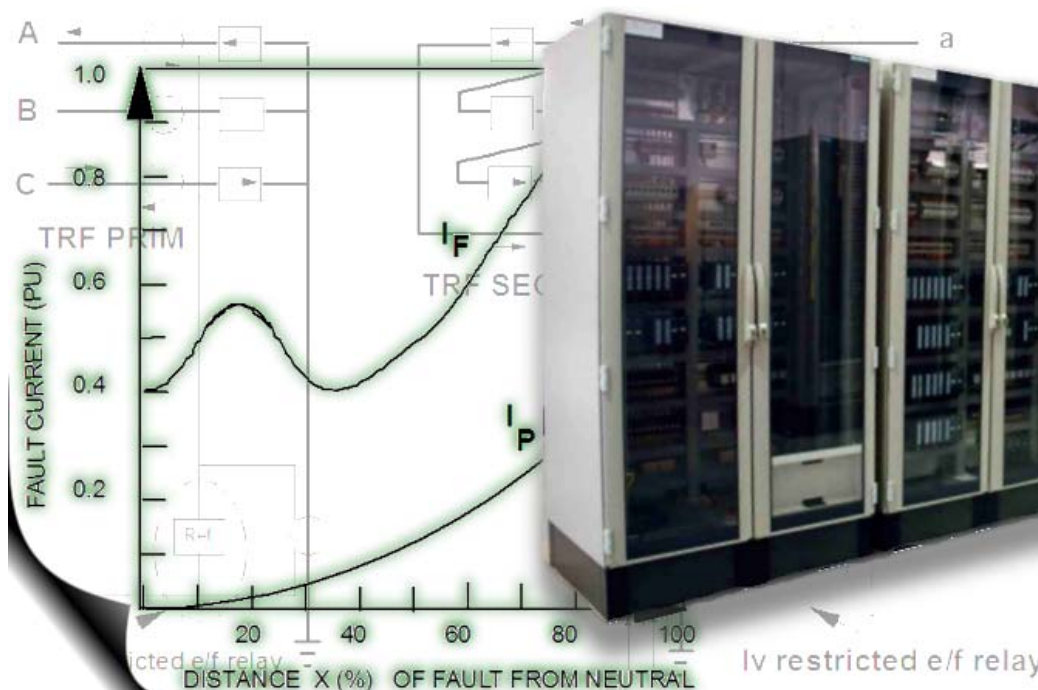
Power Plant and Power System Protection Engineering is an essential function in the Planning, Design, Commissioning, Operation and Management of any power Generation, Transmission, Distribution and Reticulation system.

This course aims to provide electrical professionals with a clear understanding of the needs, requirements and management of protection systems. The course focuses on individual plant types to complete the picture of overall system protection. For every plant type the applicable protection types are discussed, including specific application requirements and considerations.

In addition to the above, the role of back-up protection and protection performance is discussed. The latter includes definitions, performance monitoring, audits, refurbishment and more.

Topics

- Power lines protection
- Protection of transformers and reactors
- Protection of power capacitor banks
- Protection on bus bars
- Generator protection
- Back-up Protection
- Protection Performance Management



Course dates
TBA

Course duration
5 days – 08:30 to 16:00 daily

Course fees
R9 500 (incl. VAT)
per delegate

Course venue
NETGroup Academy
28 Regency Rd
Route 21 Corporate Park
Cnr Boeing & Nelmapius Rd
Irene, Centurion

What's included

- Domain expert facilitators
- Training Guide
- Quality Training Venue
- Lunch and Refreshments
- Ample Parking

Registration deadline
2 weeks prior to the
scheduled course

Contact details

Tel: 012 345 6005 /
0861 NET GRP

Fax: 012 345 6633

email: academy@netgroup.co.za

Private Bag X14
Elardus Park
0047

0861 NET GRP
www.netgroup.co.za

NETGroup Academy



Who should attend
Engineers, Technologists and Academics working in:

- the power generation industry;
- industrial production plants;
- the electrical power consulting industry;
- power system fields involving planning, design, specification, construction, testing, commissioning, operation and maintenance of rotating power plant.

Accreditation

This course is being accredited for 4 CPD points.

NETGroup Academy is registered with the ISETT SETA and Consulting Engineers South Africa as an accredited training service provider.



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Outcomes

When you have completed this course, you will:

- understand and be able to describe the fundamental factors, principles, dynamics, philosophies and needs for protection of plant and systems
- be able to support the planning, design, specification, technical evaluation, engineering, testing, commissioning, operating, maintenance and management processes of power plant and systems
- be able to engineer, design, specify and evaluate protection components and systems
- be able to perform power plant and protection systems testing, measurement and commissioning
- be able to evaluate and identify reasons and effects of malfunctioning and poor performance of protection systems
- be able to identify advice on, plan and execute corrective measures to improve performance of protection systems

About the Venue

The NETGroup Academy's training facility offers two multiple purpose instruction rooms each comfortably accommodating up to 20 students in multiple desk layouts. Depending on the seating configuration, the rooms may accommodate lecture-style instruction or encourage interaction in the form of roundtable discussions and teleconferences.

Teas and lunches are arranged with the on site cafeteria and ample parking is available for students.



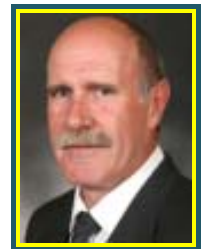
As a training facility for adult professionals, the NETGroup Academy offers a flexible and technologically-advanced learning environment that is safe, healthy, comfortable, aesthetically-pleasing, and accessible. Business stations and wireless access points with **complimentary Internet access** are available to allow students to carry out some business functions or to quickly connect with their organizations if need be during or between their training sessions.

Your Course Facilitators

Olaf von Abo

M.Dip. Electrical H.C.

Chief Design Eng.
NETGroup SA



Olaf has some 22 years practical experience in the Protection of High and Medium Voltage Transmission and Distribution networks.

Execution of projects for various utilities and large industrial companies in network and plant commissioning, audits, design, specification, power system analysis, protection coordination studies and project management has earned him wide regard as industry expert.

Hennie Harmse

Pr. Eng. B.Sc. (Elec.),
MSAIEE



Hennie holds in excess of 30 years experience in Power System Protection, Control and Measurement and the Management of Transmission and Distribution Systems. He has been actively involved in Power System training since 1994.