

CERTIFICATE OF ATTENDANCE



participated successfully in the training
SIPROTEC 4 - Protection course for expert engineers
from 19/07/2010 to 23/07/2010

Covered subjects:

Review of Protection Principles
CT Dimensioning
Overhead Lines and Cables
Transformers
Distance protection:
- Review of Basics
- Teleprotection
- Protection of Series Compensated Lines
- Power Swing Block-Trip
- Load Compensation
- Setting
Transformer differential protection
Digital Protection Communication
Line differential protection
Busbar differential protection
Disturbance analysis using fault records

Nürnberg, 23/07/2010

Gerhard Ziegler