

Data Sheet no. 10.51/1

Tutorial HVTMT: HV Test and Measuring Techniques

Content: Tutorial HVTMT delivers the full picture of modern HV test and measuring techniques including the requirements for laboratory and on-site testing:

1. Importance and historical development

2. General basis (IEC 60060-1 and 2)

Insulation co-ordination and its verification by testing;
Breakdown as a random variable; test procedures and conditions; components of test systems; HV measurement and measuring uncertainty

3. Tests at high AC voltages and PD measurement

Generation and measurement of AC voltages; dry, wet and pollution tests; test procedures and evaluation; PD measuring circuits and instruments (IEC 60270); PD calibration; interpretation of PD measuring results; non-conventional PD measurement

4. Tests at high DC voltages

5. Tests and measurements at lightning (LI) and switching (SI) impulse voltages

Generation and influence of the test object; test procedures; impulse voltage measurement; digital recorders (IEC 61083)

6. Tests with impulse currents

7. Tests with composite and combined voltages

8. On-site test technique

General principles and requirements; test voltages for on-site use; PD measurement on site; relation to monitoring and condition based maintenance

Duration: The above content is divided into 12 lectures of 90 min each plus 1 h for free discussion per day. The full course will be held at five or four consecutive days.

Participants: Tutorial HVTMT is a full introduction in the field for managers, engineers and students.

Brochure: Each participant will get a brochure of all transparencies (approx. 220 pages) used during the Tutorial.

Certificate: Each participant will get a Certificate of Participation.

For further information please contact:

or our local representative:

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