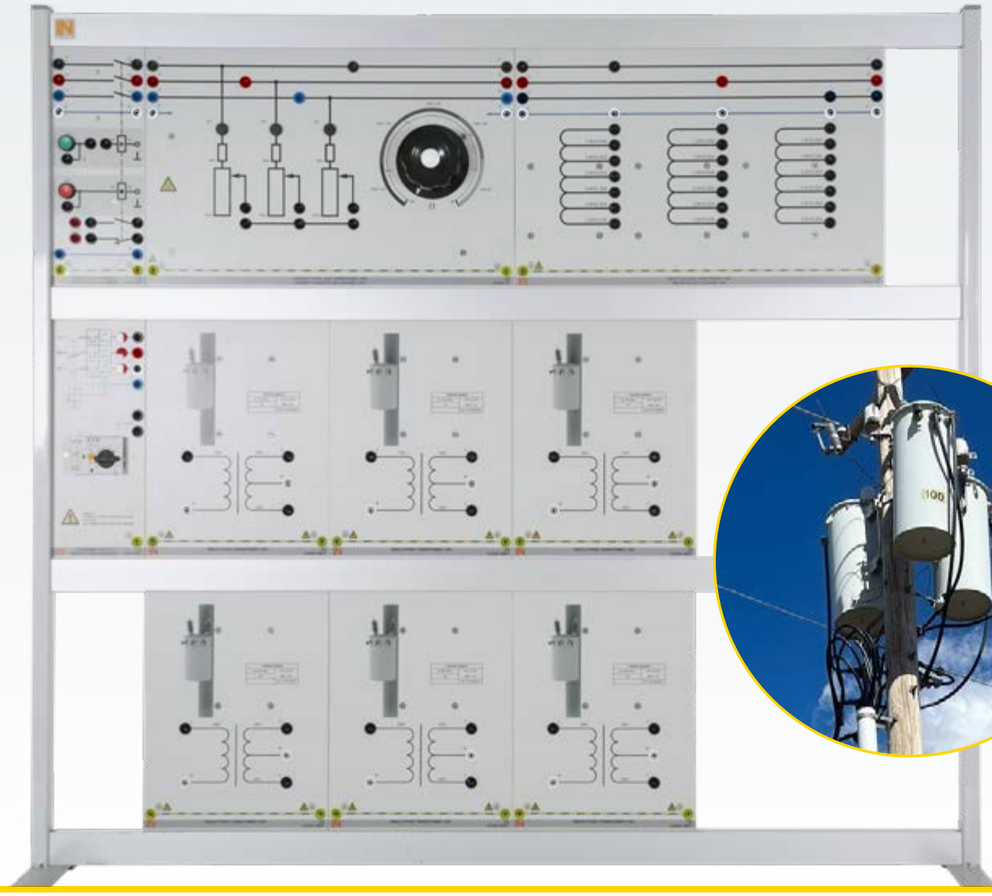
LUCAS-NUELLE

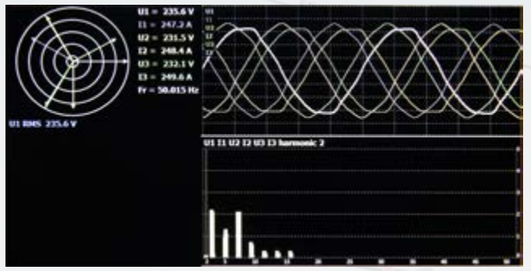
TRANSFORMER TRAINER

Professional Training of Lineman

1st Edition

THE TRANSFORMER TRAINER





In power engineering transformers are used to connect different voltage levels of the power grid. At utility poles the electricity of the regional distribution network with the medium voltage of 4.6 to 33 kV is transformed for the supply of the low-voltage end customers to 120 V/240 V or 208 V.

Working at such high voltages is life-threatening. Safe handling of the electrical equipment must be learned in order to avoid endangering yourself and others.

But how are transformers connected? What types of connections are there and how are they wired? What do they do? And what is important during a test?

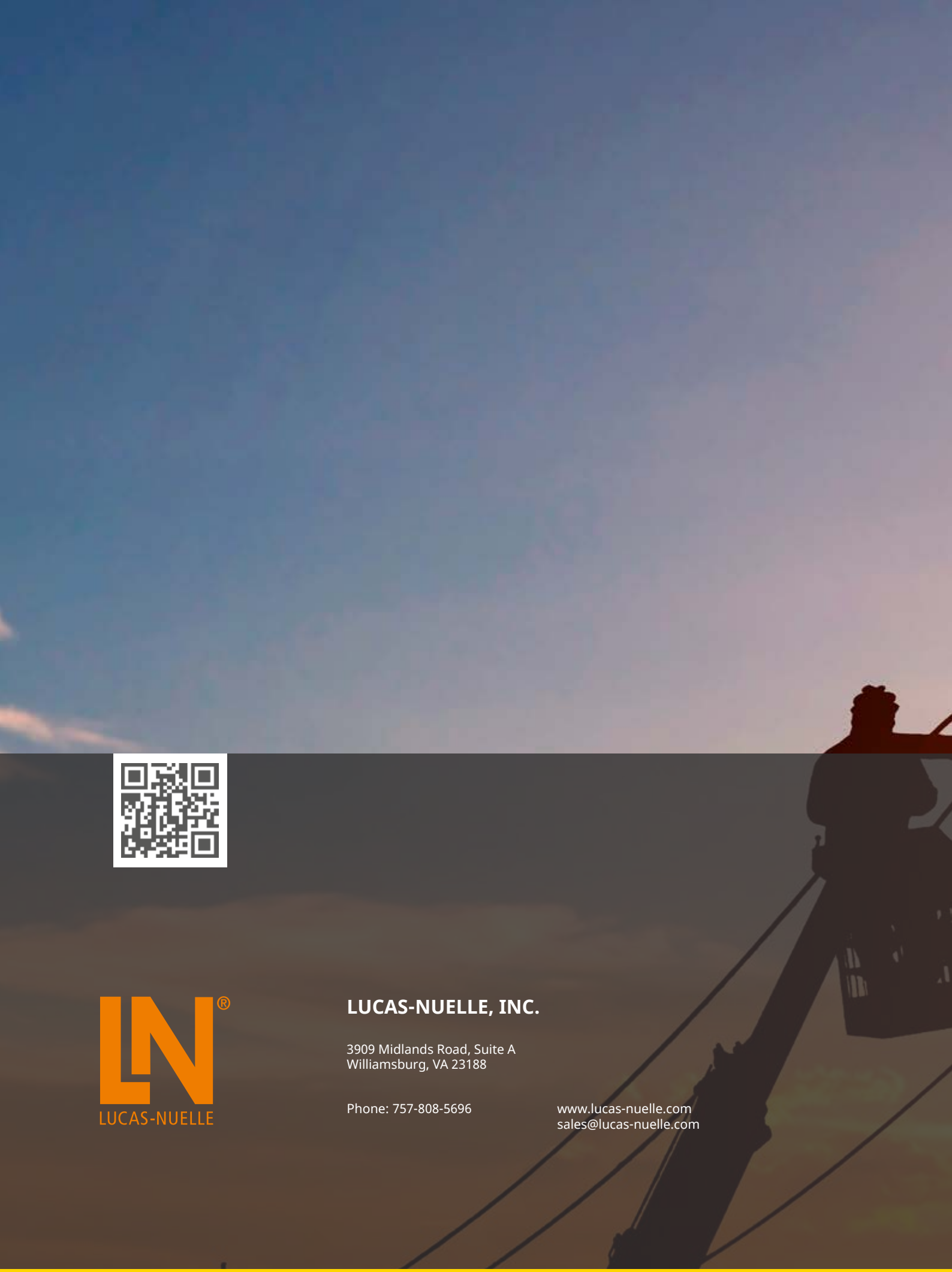
With the „Transformer Trainer“ training system, you can train know-how and the ability to act on these questions.

Benefits

- The fundamentals of the interconnection of single-phase and three-phase transformers according to the American National Standard C57.12.70
- Skills for practice
- The trainees make the connection of the transformers
- Measure and display the voltages on primary and secondary side at the same time
- Modular and expandable system to include topics such as RLC loads and renewables

Training content

- Set-up and configuration of transformers
- Set-up and configuration of single-phase, split-phase three-wire and three-phase transformers
- Wiring the four common distribution transformer banks: Wye-Wye, Wye Delta, Delta-Wye, and Delta-Delta
- Grounded (earth) the secondary delta for floating deltas (old 480-volt service), grounded corner deltas, and four-wire deltas (wild triangles) to produce both 240 V three-phase and 120/240 single-phase service
- Measure and display each transformer output voltages under single phasing conditions on the primary.



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