User-Training Invitation

KLIPPEL ANALYZER SYSTEM

MEASUREMENT & SIMULATION FOR R&D AND QC

May 5th and 6th 2020 (Klippel GmbH, Dresden, Germany)

This two-day training enables you to use the Klippel Analyzer System efficiently in your daily work. It is divided in two parts, day 1 for R&D specific solutions and day 2 for manufacturing / QC specific solutions. The level of this workshop is tuned to the participants. The training is limited to 12 attendees per day.

A small group allows an interactive training dedicated to particular challenges and questions of the participants. Our team of experienced Klippel support and development engineers will provide an overview on the Klippel product landscape as well as profound background information.

You can either sign up for both days or for just one.

HIGHLY RECOMMENDED FOR

- New users of the Klippel Analyzer System or new modules
- Experienced users looking for new features, tips & tricks
- Engineers of the Audio Industry active in research & development, manufacturing, quality control, end-of-line testing
- Students of electro-acoustic

KEY TOPICS

- Electro-mechano-acoustic measurements
- Validation of test results
- Bridging measurement and simulation
- Defect analysis of transducers and audio systems
- Standard conform testing (IEC 60286 and others)
- Development – production – loop (Life cycle)
- Exploit electrical and mechanical properties
- Discuss your challenges and questions with experts

MORE INFORMATION

Date and Time:
05.-06.05.2020 (9am - 5pm)

Address:
KLIPPEL GmbH
Mendelssohnallee 30
01309 Dresden, Germany

Language:
English/ German

Registration Fee:
One day: 280 € (VAT incl.)
Two days: 500 € (VAT incl.)

Contact:
Contact Jasmin for more information about agenda and your registration.

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Training Content

During both days of the training an overview will be given on the most relevant aspects of the Klippel Analyzer System. The following points are to be discussed but we are not limited to those:

Day 1: R&D Solutions:

- Hardware setup, sensor calibration - ensuring accuracy
- Using dB-Lab effectively - tips & tricks
- Klippel templates, customization, user templates
- Small signal parameters - how to measure it precisely?
- Large signal measurement - how to setup it correctly?
- Large signal identification - how to interpret it?
- Stimulus - using different stimuli for different purposes
- Analysis - mechanical, compression and distortion analysis
- Interpretation - measured symptoms and physical causes
- Simulation - comparing measurements with simulations, virtual prototyping
- All modules can be discussed, minimum is: LPM, LSI, TRF, DIS, SIM, LAA, MTON

Day 2: QC Solutions:

- Getting started – project and data management
- Defect analysis – from frequency response to rub&buzz
- Measurement time – ultra-fast testing, time is money
- Robustness – cope with production floor disturbances
- References – how to find Golden Units and what are Golden Defects?
- Tolerances – how to define useful limits and avoid common pitfalls
- Reproducibility – ensure your coil is well centered in the magnetic gap
- Statistics – yield statistics, on-line / off-line, cpk, ppk, Nelson/Weco-Rules, curve statistics
- Documentation – making reports, traceability, settings history
- All Modules can be discussed, minimum is: SPL, IMP, MSC, PNI, ALD, 3DL