

Sound System Optimization & SysTune Measurement Training

Instructors: Sebastiaan Meijer, Thei Munten

Language: English

Hours: 09:30 - 17:00

(class starts at 10:00)

Lunch break at 12:30, coffee breaks as needed

This 2-day course is both for beginners as well as for advanced system engineers and sound technicians. Sebastiaan and Thei will provide lots of important background knowledge and give a detailed introduction into the features of SysTune 1.2. Participants will learn how to employ SysTune efficiently, making use of all the features provided by the software. Most importantly, they will learn the reasons and physics behind the effects experienced in every-day work. Practical exercises help with understanding and give hands-on experience with SysTune, the leading audio measurement tool.

Agenda

Day 1 morning:

Setting up SysTune. The goal is to get set up SysTune 1.2 and to do basic verification of the measurement setup. At the end of the morning you will be familiar with the basic tabs and screens and will know how to verify that you measure what you think you measure. Elements include:

- Setting up the system, connecting measurement hardware, multi-channel options of SysTune
- Function of mini meters, recommended levels for microphones & measurements
- General layout of SysTune, using the two windows, mouse features, and useful keyboard tricks
- SysTune's tabs and types of measurement, what information can be derived from which tab.

Day 1 afternoon:

The bread and butter of measurements. At the end of the afternoon you can make a series of measurements for various purposes like tuning, monitoring and law enforcement. Topics include:

- setting additional parameters like gain adjustment, delay etc., capturing and working with overlays
- tools and monitoring tabs, introduction into windowing, explanations, usage
- overview of several plugins... Virtual EQ, Normalization, Health Regulations, Remote Control options like Podware and others, Web-Interface for remote control.

Day 2 morning:

Shaking you up with theory. Thinking critically about EQ, Delay and Phase. We show you why it is so hard to interpret phase. Elements of this part of the course are:

- Filters and phase
- IIR versus FIR
- Delay Plugin

Day 2 afternoon:

Measurements in the real world. We will do measurements on subwoofer alignment, and various types of delay systems. You will learn how SysTune's features can help to speed up your work and deliver reliable results.

Meanwhile we go over the following components:

- Work flow for real-world systems
- Different optimisation goals
- The difficulty of real-world rooms