

SystemVue Advanced Training

Keysight Technologies invites you to join our training on SystemVue training class for Phased Array Antenna design, Beamforming dataflow and 5G New Radio

Overview

You will learn:

- Quickly set up various phased array systems and configurations.
- Easily analyze various phased array systems and configurations.
- About the various measurement and statistical evaluations available.
- To make meaningful, 3D plots.
- To link your dataflow design with the phased array design using the RF Link PhasedArray co-simulation component.
- To set up, configure and analyze various beamformer architectures.
- To easily simulate different antenna array configurations.
- To extract the correct measurements from these.
- To configure 5G NR sources for various bandwidths and numerologies.

Course Type: User/Application Training

Audience: Designers

Course Length: 2 days, 8 hours per day.

Course Format: The course combines lecture presentations with instructor guided hands-on labs.

SystemVue Advanced Training

Date: TBD

Delivery: Virtual/Onsite

Cost: Please contact us for pricing at: eda.training@keysight.com

Language: English

Schedule

SystemVue Advanced Training

Day 1

Phased Array Antenna Analysis

- Introduction to the Phased Array Analysis
- Setting up Analysis
- Tx and Rx Modes
- New Array Parts
- Theory of Operation
- Measurements
- Spectrasys Simulation of a Phased Array design
- Performing Statistical / Monte Carlo Evaluations
- RF Link PhasedArray and Data Flow cosim
- Theory of Operation
- Requirements
- RF Beamforming

Day 2

Introduction to Beamforming in dataflow

- RF and Digital Beamforming Architectures
- Beamforming Weights
- Antenna Array Configuration
- Beam Patterns
- Dynamic and Static 3D Plots and Graphs
- Beam Measurements
- Shared- and Sub-Arrays
- for Multi-Users
- SystemVue Matrix Parts

Introduction to 5G New Radio in SystemVue

- 5G Introduction
- 5G NR Signal Generation

Learn more on our trainings: www.keysight.com/us/en/products/services/education-services. For more information on Keysight Technologies' products, applications, or services, please contact your local Keysight office. The complete list is available at: www.keysight.com/find/contactus. For registration or information contact your training center at eda.training@keysight.com.

Keysight enables innovators to push the boundaries of engineering by quickly solving design, emulation, and test challenges to create the best product experiences. Start your innovation journey at www.keysight.com.