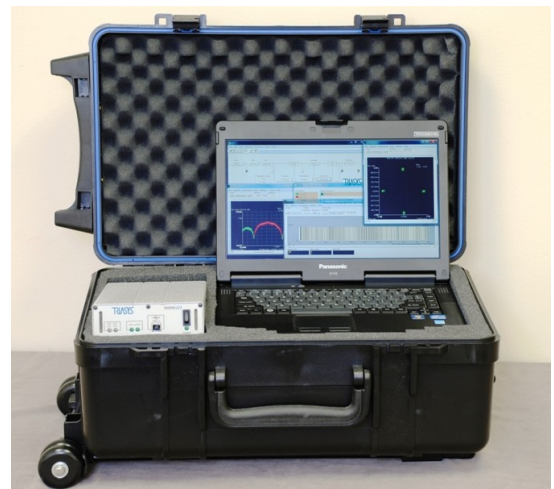


SIGNAL ANALYSIS SOLUTION PHOENIX SYSTEM BASIC TRAINING COURSE AGENDA

Learn to:

- Use the General Functions of SignalWorks
- Use the SigDig to Capture Signals
- Playback Signals in the SigDig
- Analysis and Breakdown of unknown signals
- Analysis of Carrier, Modulation Rate, and Modulation Type
- Bit Stream Analysis, Including Bit Frame Detection
- Utilized Powerful Bit Processing Capabilities
- Simulate Various Modulated Signals



TriaSys Technologies' Phoenix basic training provides purposeful instruction in the use of key components provided in the Phoenix System. The newest version of SignalWorks[®] coupled with the high-performance SigDig digitizer.

With SignalWorks users learn to analyze the external parameters of a signal of interest and learn to analyze the bit structure for randomized signals, overhead removal, justification and control bits, with de-multiplexing capability along with interleaving and tributary definition.

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UTILIZE THE SIGNALWORKS® SUITE
OF SIGNAL ANALYSIS TOOLS,

Day 1

Communications basics

Waveform concepts

Waveform attributes

Signal processing domains

Discrete signals

Analog to digital conversion

Quantization/encoding

Framing

Time division multiplexing

Linear recursive sequences (LRS)

Spread spectrum

Multiple access methods

Forward error correction

Interleaving

Pulse shaping

Modulation

Symbol mapping

Modulation types

Bit error rate

Introduction to the Phoenix system

Phoenix system components

SigDig III overview

SignalWorks overview

SigDig III operation

Introduction to the SigDig III hardware

Connectors and indicators

Signal capture

Choosing a sampling rate

Recording time

Modes of operation

Wideband

Narrowband

System setup

Standalone operation

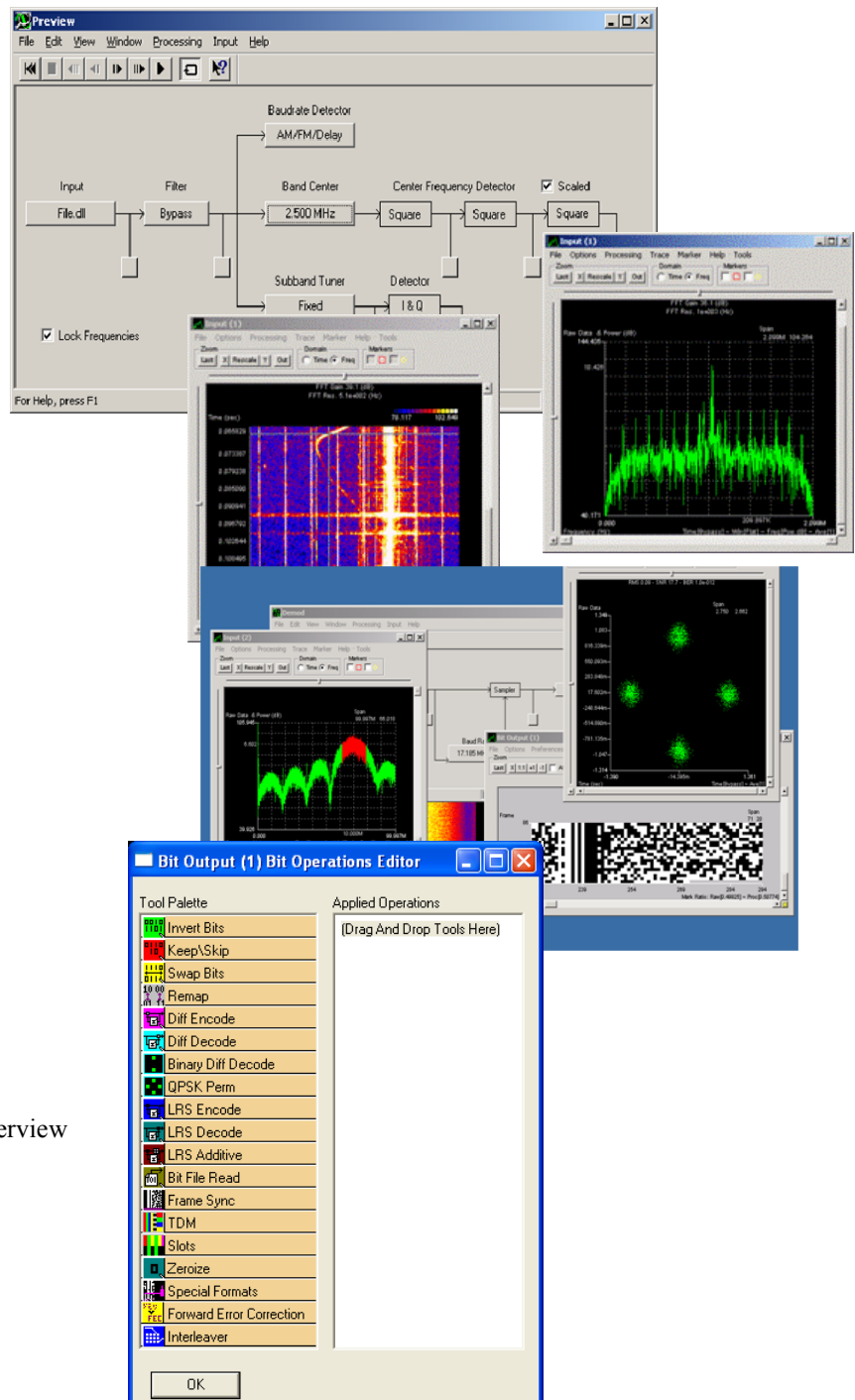
Network operation

“Universal SigDig Application” (USDA) overview

SignalWorks Preview’s “SigDig III Input”

Wideband snapshot

Narrowband continuous capture



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BASIC TRAINING COURSE AGENDA

Day 1 (continued)

Workshops:
 Sample rate, IF center frequency, and available bandwidth
 Signal capture and playback using USDA
 Wideband capture using Preview
 Narrowband capture using Preview

Day 2

SignalWorks Operation
 Overview
 Using Preview to identify the signal of interest
 External components of a signal
 Input types
 Test points and signal display
 Baudrate detection
 Center frequency detection
 Using the subband tuner
 Manual Identification of modulation type
 Exporting parameters to Demod
 Auto-detect (AD)
 Using Demod for demodulation and bit manipulation
 Equalizer
 Tracking bandwidth
 Bit output
 Controls
 Search and Scan
 Frame search
 LRS scan

Workshops:
 Identifying the center frequency, baudrate, and modulation type of an unknown signal

Day 3

Bit operations
 Using SignalGen for signal synthesis
 Applying bit operations to data
 Performing baseband modulation
 Filtering
 Adding noise
 Selecting a carrier frequency

Workshops:
 Demodulation and bit manipulation of an unknown signal
 Decoding an E2 signal with LRS using special formats
 Decoding an E2 signal with LRS using TDM
 Generating a signal from a text file
 Decoding the generated signal

Day 4

Workshop:
 FSK signal analysis
 MSK signal analysis
 802.11b signal analysis

Day 5

Workshop:
 Analysis of a live-captured signal
 Q&A

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PHOENIX SYSTEM BASIC TRAINING COURSE



Typical class sizes up to 8 students

Each student receives:

- A SignalWorks license good for two months after the completion of the course to continue to utilize what they learned during the class. This license requires a MAC address of the computer where the software will be installed.
- A flash drive containing SignalWorks to be used with the two month license, training documentation and sample signals to practice on.
- A certificate of completion.

Classes are offered at our Maryland facility

This course does not provide for Transportation, Lodging, Entertainment or Meals for students

Additional charges may apply for travel if training is not held at our Maryland facility.

Requirements:

Trainee should possess a communications background

Recommendations

While we are comfortable to accommodate 8 students, a smaller class size is typically better for the students.

Please note: This course may be tailored to students' needs at the time of the course, at the trainers discretion .

To Inquire or Order

For further information, contact a representative, please call 978.244.1060, or visit our website at www.triasys.us.

Training

- Additional user training is available
- *Some features may not be available, Subject to ITAR Regulations*

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