

## Educator's Resource Kit Enables Hands-On Learning

*Editor's Note: We need to do as much as possible to create educational tools that keep our students current and competitive.*



[1]BEAVERTON, Ore. – Using hands-on problem-based laboratory experiments, a comprehensive new Educator's Resource Kit from Tektronix teach students the fundamentals of test and measurement for basic electronics. The kit is designed to help ensure that students are prepared to be immediately productive in the workplace and able to use the latest in test and measurement instrumentation.

Virtually every electronic product developed today is an embedded system and may contain microprocessors, microcontrollers, DSPs, RAM, Flash, EEPROMs, FPGAs, A/Ds, D/As, serial and parallel buses, embedded audio and switch-mode power supplies. Students need to be trained on the test equipment and procedures used to design and troubleshoot these multi-component embedded systems. The labs in the Educator's Resource Kit address the most common challenges faced in the electronics industry today.

“With the rapid pace of change in the electronics industry, educators are finding it increasingly challenging to keep their curriculum current with the latest advances. Staying current is particularly important – and daunting – in embedded systems design,” said Bob Bluhm, vice president and general manager, Value Oscilloscope Product Line, Tektronix. “The Educator's Resource Kit offers an easy-to-implement method to keep electrical engineering curriculum up to date. We've had a long history of partnership with leading educational institutions throughout the world, and this is the most recent product of those relationships.”

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The new kit provides a complete set of instructional materials to upgrade lab curriculum to feature the latest and most commonly used test equipment. Materials include six different scalable, problem-based laboratory experiments with an instructor's guide and student reference fact sheet for each experiment, a training board to provide real-world signals for the lab experiments and an Oscilloscope Reference Guide that mounts directly on the oscilloscope and details the common controls and features of today's digital oscilloscopes. Labs span such topics as Introduction to Oscilloscopes, Introduction to Arbitrary/Function Generators, Parallel and Serial Bus Analysis and Debugging a Digital Design.

The labs are built around the popular Tektronix MSO/DPO2000 Series oscilloscopes. In addition to basic oscilloscope functions and features, the MSO/DPO2000 oscilloscopes deliver advanced capabilities, such as up to 16 digital channels, deep memory and serial and parallel bus decode. With the industry's lowest price for such advanced capabilities, the MSO/DPO2000 Series is an ideal choice for budget-conscious educational institutions.

In addition to the new Educator's Resource Kit, Tektronix is also offering a free Fundamentals Library of 15 technical papers covering basic concepts to advanced test and measurement techniques. For example, Oscilloscope Fundamentals explains how oscilloscopes work, describes different types of oscilloscopes, outlines electrical waveform types, reviews basic oscilloscope controls, and explains how to take simple measurements.

### **Pricing and availability**

The Educator's Resource Kit is available now and priced at \$350 U.S. MSRP. To learn more, go to: [www.tektronix.com/education](http://www.tektronix.com/education) [2]

### **About the MSO/DPO2000 Series Mixed Signal Oscilloscopes**

The MS2000 and DPO2000 Series of oscilloscopes each consist of three models ranging from 100 MHz to 200 MHz, with two or four analog channels and provide the familiar Tektronix front-panel layout, serial triggering, protocol decode, USB plug-and-play PC connectivity, a seven-inch widescreen bright TFT display, and a three-year warranty. The MSO2000 models also include 16 digital channels, providing up to 20 time-correlated channels to debug analog and digital data. All models contain 1M points of record length on each channel and a 1 GS/s sampling rate on all channels, ensuring at least 5X over-sampling of the signal. List prices start at \$2,700. Additional information can be found at [www.tektronix.com/scopes](http://www.tektronix.com/scopes) [3].

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### **Links:**

[1] <http://www.tek.com/education/>

[2] <http://www.tektronix.com/education>

[3] <http://www.tektronix.com/scopes>