



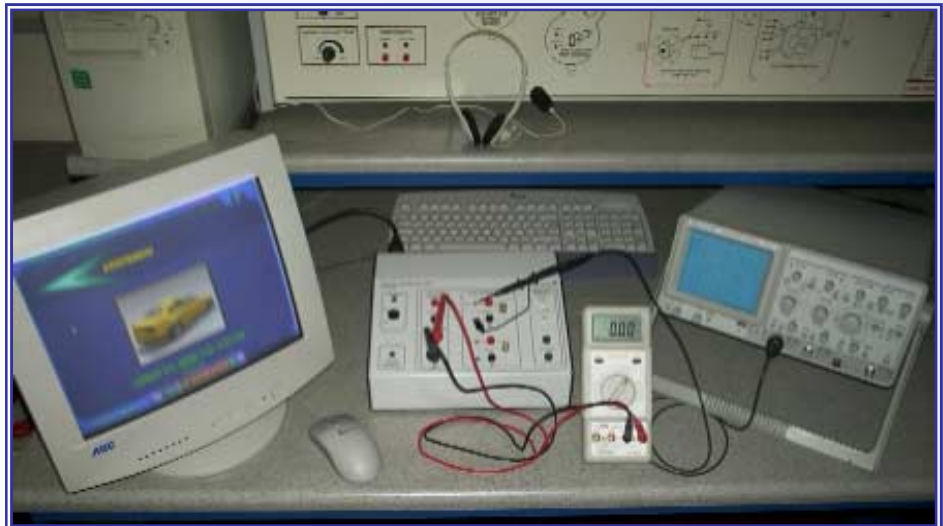
AT-2000 - the new generation

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eAT-301 Measuring Instrument Techniques

Internet Capable 3D Courses for Real Measuring Equipment

The Signal Interface Unit (SIU) connects to the PC via the RS232 port and is linked to the measuring equipment - the courseware is accessed via the Internet and the learner is taught how to calibrate and use the equipment - cost and time effective.



Learners acquire basic knowledge before beginning the course or away from the classroom- testing virtual circuits using real equipment- with courseware support.

e-Learning Courseware helps to eliminate time wasted in the training facility - flexible and self paced - freeing staff to concentrate on more complex topics

Supporting the practical exercises the specially designed e-Learning courses allow the underlying theory to be delivered 'on demand'.

The modern vehicle incorporates sophisticated electronic computer-controlled systems. The skilled service technician uses a variety of equipment (DMM, Scope, Diagnostic Unit) to perform tests and measurements to accurately diagnose and troubleshoot malfunctions in modern computer-controlled vehicle sub systems.

CLEMS

The courses can be delivered in standalone mode or tracked using the Internet-based CLEMS (Computerized Learning and Evaluation Management System) which allows the instructor to monitor individual learner and class activities and record the learner's progress.

Contact ITE via the web site at www.iteltd.com or phone +44 (0) 020 7 830 9664



COURSEWARE

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The courseware guides the learner through various activities allowing the learner to acquire the fundamental theory and the basic knowledge necessary to calibrate various measuring and diagnostic instruments. The learner then undertakes a set of practical exercises, many of which relate directly to automotive applications, to help them master the proper use of generic electrical measuring instruments.

The Signal Interface Unit (SIU) generates the various signals that the learner measures in these exercises. The signals are automatically generated by the SIU and the learner's responses tracked by the management system. The learner is first shown how to perform each measurement by using a simulation on the PC screen. The learner then performs the measurement using real measuring and diagnostic equipment.

TOPICS COVERED

The following subjects are covered by the courseware:

- Basic electrical theory
- DMM voltage measurement
- Resistance measurement
- Testing series circuits
- Test a DIS ignition system with a DMM
- Test a DIS ignition system with an oscilloscope
- Introduction to automotive oscilloscope testing
- DMM current measurement
- Introduction to Ohm's law
- Testing parallel circuits
- Measuring AC waveforms

REQUIRED ACCESSORIES

PC - (see minimum configuration for details) - Signal Interface Unit
Digital Multimeter, Oscilloscope

OPTIONAL ACCESSORIES

CLEMS - Software for monitoring and recording learner progress

Distance Monitoring Software

Web camera and microphone for each instructor and learner station

NOTE: In order to work with CLEMS, an Internet server is required. (Please consult your local contact for more information and minimum configuration).

COMPUTER MINIMUM CONFIGURATION

Pentium II 350 MHz with:

64 MB RAM

40 X CD

COM1 or COM2 port

SVGA card with 8 Mbytes

Operating System: Windows 95/98/NT/2000/XP

Microsoft Internet Explorer 5 or later



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