

Digital Multimeter (EB01B)

INDUSTRIAL POWER ELECTRONICS



JOB MASTER

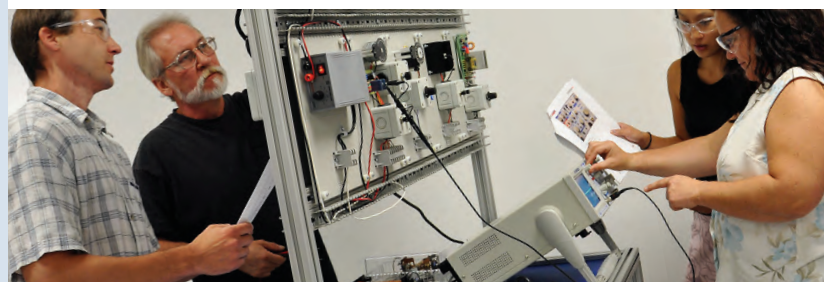
SKILLS-BASED TRAINING

The JobMaster™ Industrial Maintenance and Mechatronics Training teaches the specialized skills required for today's industrial technicians. JobMaster™ provides a superior blended learning solution for automated manufacturing training by combining industrial-grade components with engaging e-learning curriculum.

JobMaster™ courses are entirely skill-based, consisting of individual exercises that reproduce essential tasks performed by maintenance technicians, equipment operators, and machine repairmen. Each skill has been analyzed and field-tested by qualified technicians to teach the specific skills needed in the industrial environment.

intelitek's partners in development of the curriculum include twelve major US industrial companies, including Boeing, Caterpillar, Ford, GE, and US Steel.

JobMaster™, the new standard in industrial maintenance and mechatronics training!



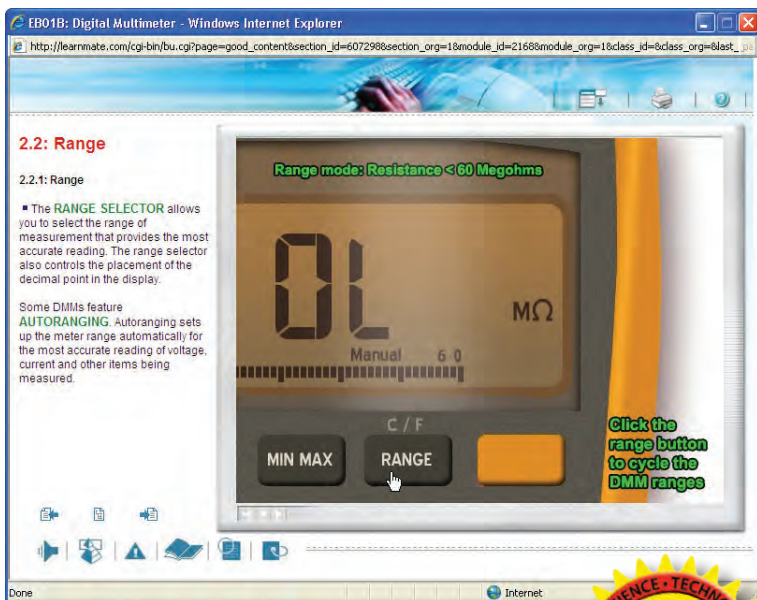
Fully equipped Learning Station shown. Learning station sold separately. Some panels and components shown may be sold separately.

POWERED BY

LearnMate™

JobMaster™ courses are powered by LearnMate™- intelitek's innovative e-learning platform. LearnMate's self-paced interactive content may be deployed stand-alone or through the robust learning management system (LMS). The LearnMate™ e-learning suite provides everything needed for the ultimate blended learning experience:

- SCORM-compliant interactive content
- Anytime, anywhere accessibility
- Student and class management
- Grade tracking
- Skill/competency reporting mapped to national academic skill standards



Digital Multimeter (EB01B) guides students through hands-on activities using industrial-grade test equipment. Students gain essential skills in the function and operation of a digital multimeter including safety, measuring voltage and resistance, testing grounds and more.

The skills-based curriculum presents hands-on activities using an industrial grade digital multimeter as well as electrical components mounted on two included Flexponent™ panels which attach to the JobMaster Learning Station (not included). Panels are easily added and exchanged allowing the workspace to be re-configured as multiple students progress through the course.

Core concepts are taught through self-paced e-learning curriculum. All the necessary resources, including printable instructions, wiring diagrams and troubleshooting charts, are available online, ready for use at the JobMaster Learning Station.

Instructors are also provided comprehensive resources, including a detailed instructors' guide. Teachers' versions of schematics and wiring diagrams as well as tips and tricks are all one click away.

With JobMaster, you can be sure your training program will deliver the skills needed for success in automated manufacturing careers!



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Digital Multimeter (EB01B)

Materials Included

Order #14-EB01B:

- Digital Multimeter (EB01B) Course and Teachers' Guide
- Flexponent™ panels:
 - E052 Resistors Panel
 - E055 Filters/Capacitors Panel
- Digital Multimeter (Fluke Model 115 or equivalent)

Materials required (sold separately):

- JobMaster™ Learning Station Order #10-LS00-0200
- Power Control Panel (120V): Order #10-PC04-0000

* International step-down transformer package (Order #10-PC09-0000) required for international applications.

- Prerequisite courses
 - Oscilloscope (EB01A) Order #14-EB01A

Skills Acquired

- Skill 1 Digital Multimeter Safety
- Skill 2 DMM Controls and Features
- Skill 3 Locating and Reading DMM Icons and Symbols
- Skill 4 Reading the Liquid Crystal Display
- Skill 5 Setting Up the DMM for Reading AC Voltage
- Skill 6 Measuring AC Voltage
- Skill 7 Calculating & Converting AC Voltage
- Skill 8 Measuring DC Voltage
- Skill 9 Measuring Resistance
- Skill 10 Discharging a Capacitor
- Skill 11 Measuring Capacitance
- Skill 12 Testing Capacitors
- Skill 13 Measuring Current
- Skill 14 Measuring DC Millivolts
- Skill 15 Performing Continuity Tests
- Skill 16 Testing Grounds and Bonds
- Skill 17 Measuring Frequency



INDUSTRIAL POWER ELECTRONICS

Digital Multimeter (EB01B) is a fundamental course in the Industrial Power Electronics series which includes comprehensive instruction in industrial power, including test equipment, power supplies and motor drives. These courses deliver specific identified skills for industrial maintenance, mechatronics and automated manufacturing careers.

The Industrial Power Electronics series includes:

- DC Power Supplies (EB02A)
- Single-phase and Three-phase Power Supplies (EB02B)
- Servo Motor Drives (EB06)
- and more!



Fully equipped Learning Station shown. Learning station and some equipment and panels shown sold separately.

Panel & Hardware Specifications

All included Flexponent™ panels meet the following specifications:

- Construction: 3/8" (9.5 mm) thick environmentally stabilized, chemically resistant, non-conductive, high density polyethylene.
- Terminal strips Industry-standard recessed and insulated fasteners rated for 50-amps at 600 volts.
- Dimensions 8"W x 11.5"H x 0.375"D (203 mm x 292 mm x 9.525 mm)

Panel E055: Filters/Capacitors



- Panel type: Single
- 1 Capacitor, 2.2uf, 50V, Axial, Aluminum
 - 1 Capacitor, 10uf, 50V, Axial, Aluminum
 - 1 Capacitor, 22uf, 50V, Axial, Aluminum
 - 1 Capacitor, 100uf, 50V, Axial, Aluminum
 - 1 Capacitor, 220uf, 50V, Axial, Aluminum
 - 1 Capacitor, 470uf, 50V, Axial, Aluminum
 - 2 Capacitor, 1000uf, 50V, Axial, Aluminum
 - 1 Capacitor, 150uf, 10V, Axial, Aluminum
 - 1 Inductor, High Current, 27uH, 10%, 4.8A, Axial

Panel E052: Resistors



- Panel type: single
- 2 Composition, 470Kohm, 10%, 2W, Ceramic
 - 1 Ceramic power resistor 180ohm, 5%, 5W
 - 1 Ceramic power resistor 330ohm, 5%, 5W
 - 1 Ceramic power resistor 470ohm, 5%, 5W
 - 1 Ceramic power resistor 680ohm, 5%, 10W
 - 1 Ceramic power resistor 900ohm, 5%, 8W
 - 1 Ceramic power resistor 1.2Kohm, 5%, 5W
 - 1 Ceramic power resistor 2.7Kohm, 5%, 10W
 - 1 Ceramic power resistor 3.3Kohm, 5%, 5W
 - 1 Ceramic power resistor 6Kohm, 5%, 5W
 - 1 Ceramic power resistor 10Kohm, 5%, 5W
 - 1 47ohm resistor

Digital Multimeter



- True-rms
- CAT III 600 V safety rated
- AC/DC volts, millivolts, amps
- Continuity
- Resistance
- Diode Test
- Capacitance
- Hz (V or A input)

Most courses require a JobMaster™ Learning Station, sold separately. Some courses require other hardware purchased separately or as part of prerequisite courses in the same series. All included and required materials are noted on each product data sheet.

Affiliated with:



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