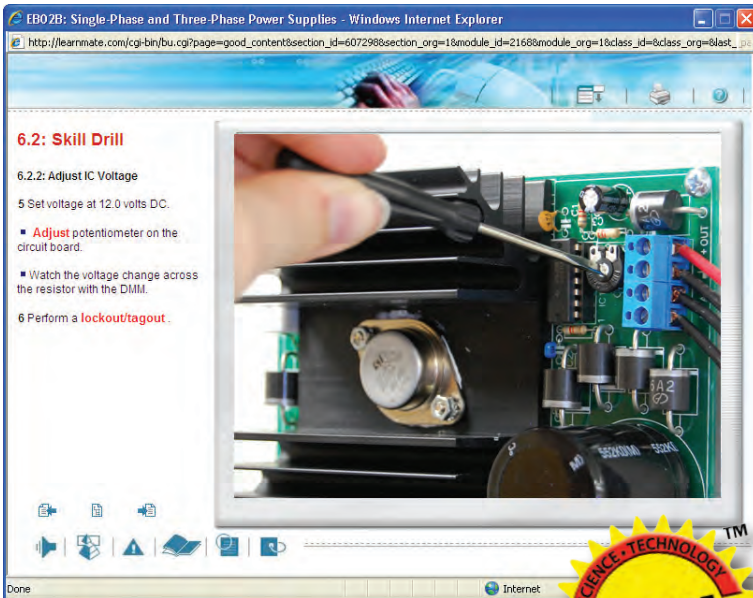


Single-phase and Three-phase Power Supplies (EB02B)

INDUSTRIAL POWER ELECTRONICS



Single-phase and Three-phase Power Supplies (EB02B)

delivers hands-on skills in operating industrial-grade bridge rectifiers, transformers and test equipment, including connecting and operating a zener diode voltage regulator, operating a DC power supply with an IC voltage regulator, and testing a three-phase bridge rectifier.

The skills-based curriculum builds on the concepts learned in the prerequisite course: DC Power Supplies (EB02A). Single-phase and Three-phase Power Supplies (EB02B) presents thirteen additional skills using three-phase bridge rectifiers and zener diodes mounted on three 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!



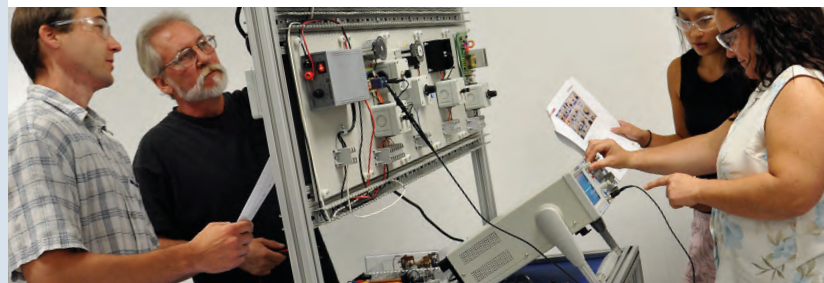
SKILLS-BASED TRAINING

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

intelitek  [®]
www.intelitek.com

Single-phase and Three-phase Power Supplies (EB02B)

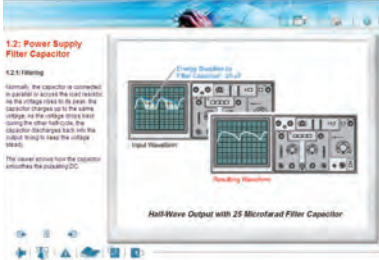


INDUSTRIAL POWER ELECTRONICS

Materials Included

Order #14-EB02B:

- Single-phase and Three-phase Power Supplies (EB02B) Course and Teachers' Guide



- Flexponent™ panels:
 - E049 Zener Diode Panel
 - E050 Regulated Power Supply Panel
 - E053 Three-Phase Bridge Rectifier Panel

Materials required (sold separately):

- JobMaster™ Learning Station Order #10-LS00-0200
- Power Control Panel (120V): Order #10-PC04-0000
- Power Control Panel (220V) 3-Phase Order #10-PC06-0000
- * International step-down transformer package (Order #10-PC09-0000) required for international applications.
- Prerequisite courses
 - DC Power Supplies (EB02A) Order #14-EB02A

Skills Acquired

- Skill 1 Drawing Filter Schematic Diagrams
- Skill 2 Connecting and Operating a Power Supply
- Skill 3 Drawing Zener Schematic Symbols
- Skill 4 Connecting and Operating a Zener Diode Voltage Regulator
- Skill 5 Locating an IC Voltage Regulator
- Skill 6 Connecting and Operating a DC Power Supply with an IC Voltage Regulator
- Skill 7 Connecting and Operating a Bleeder Resistor
- Skill 8 Connecting and Operating a Voltage Divider
- Skill 9 Troubleshooting a DC Power Supply
- Skill 10 Confirming Three-Phase Bridge Rectifier Operation
- Skill 11 Testing a Three-Phase Bridge Rectifier
- Skill 12 Connecting and Operating a Three-Phase Bridge Rectifier
- Skill 13 Troubleshooting a Three-Phase Bridge Rectifier

Single-phase and Three-phase Power Supplies (EB02B) 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:

- Oscilloscope (EB01A)
- Digital Multimeter (EB01B)
- Thyristor Electric Motor Drives (EB03)
- Servo Motor Drives (EB06)
- and more!



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

Make Industrial Power Electronics part of a comprehensive STEM program!

Add virtual, hardware-based or blended learning labs to deliver in-depth Industrial Maintenance, Mechatronics and Advanced Manufacturing programs.



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)

E049: Zener Diode



- Panel type : single
- Zener Diode, 15V, 170mA
 - Heatsink, TO-3, 76.2mm
 - Fault switches: 4A, 250V push-on/push-off momentary

E053: Three-Phase Bridge Rectifier



- Panel type : single
- Bridge Rectifier, 3P, 1200V, 60A
 - Fault switches: 4A, 250V push-on/push-off momentary

E050: Regulated Power Supply



- Panel type: Single
- Adjustable Voltage Power Supply
 - Fault switches: 4A, 250V push-on/push-off momentary

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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Phone: 800-221-2763 • info@intelitek.com

www.intelitek.com

35-EB02B-DS01 Rev-C

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