Servo Motor Drives (EB06)

Industrial Power Electronics

Servo Motor Drives (EB06) delivers hands-on skills using precision servo motor systems found in CNC machines, robotic and hydraulic systems. Students learn closed-loop servo motor control and system feedback principles while acquiring skills including installing, monitoring and troubleshooting servo motor drives.

The skills-based curriculum builds on the concepts learned in the prerequisite courses in the Industrial Power Electronics series. Servo Motor Drives (EB06) presents six additional skills with an industrial-grade servo motor and drive mounted on a Flexponent™ panel which attaches 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!

intelitek®

www.intelitek.com

JOBMASTER®

Industrial Maintenance Program

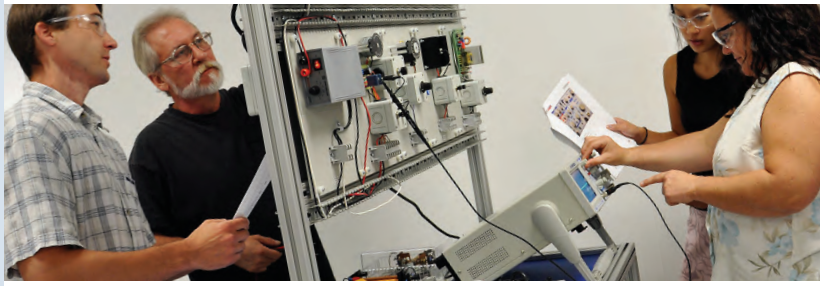
Skills-Based Training

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!



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:

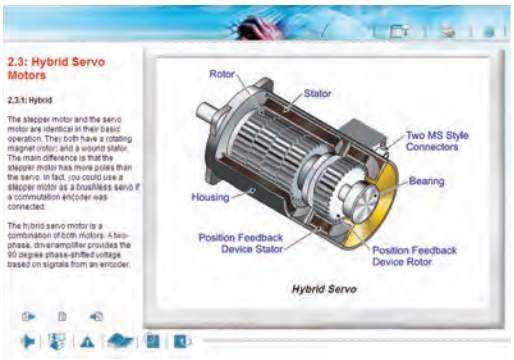
- SCORM-compliant interactive content
- Anytime, anywhere accessibility
- Student and class management
- Grade tracking
- Skill/competency reporting mapped to national academic skill standards

Servo Motor Drives (EB06)

Materials Included

Order #14-EB06

- Servo Motor Drives (EB06) E-Learning Course and Teachers' Guide



- Flexponent™ panels:
  - E091 Servo Motor and Drive Panel

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
  - Stepper Motor Drives (EB05) — Order #14-EB05

Skills Acquired

Skill 1	Demonstrating Closed-Loop Servo Motor Control Principles
Skill 2	Demonstrating Closed-Loop Servo Motor Principles
Skill 3	Demonstrating Servo System Feedback Device Principles
Skill 4	Demonstrating Analog and Digital Servo Motor Drive Principles
Skill 5	Installing, Connecting and Monitoring a Basic Servo Motor Drive
Skill 6	Testing and Troubleshooting a Basic Servo Motor Drive

JOBMASTER®

INDUSTRIAL POWER ELECTRONICS

Servo Motor Drives (EB06) 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 and mechatronics careers.

The Industrial Power Electronics series:

- Digital Multimeter (EB01B)
- Oscilloscope (EB01A)
- Single-phase and Three-phase Power Supplies (EB02B)
- Stepper Motor Drives (EB05)
- 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!

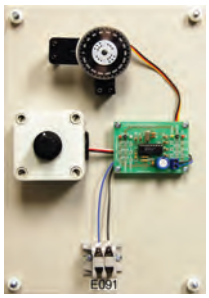
Add virtual, hardware-based or blended learning labs to deliver in-depth Industrial Maintenance, Mechatronics and Advanced Manufacturing programs.

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)

Panel E091: Servo Motor and Drive



Panel type : single

1	Servo motor
1	Servo drive
1	NO pushbutton switch
1	Potentiometer
1	Dial
1	IC test clip, 16-position

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:

AMT The Association For Manufacturing Technology · SkillsUSA · NTMA PRECISION

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