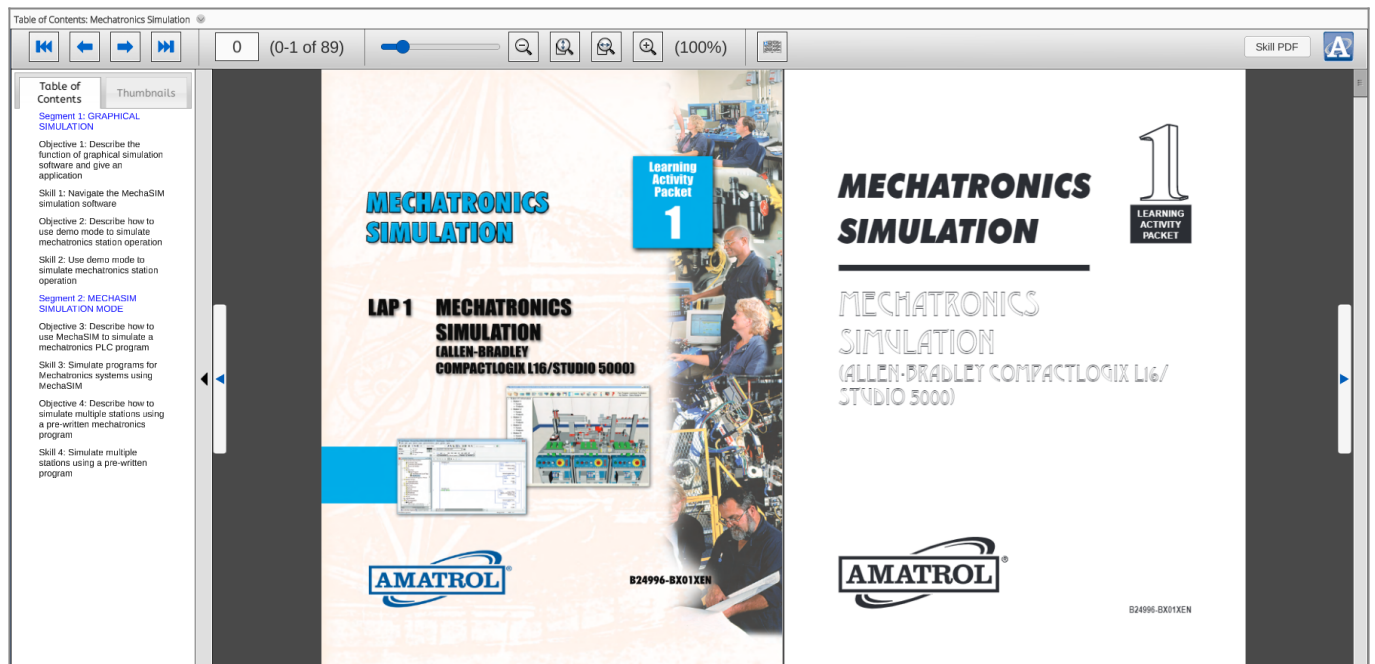


# MechaSIM Mechatronics Simulation Training | eBook Curriculum



eBook: E24996

Mechatronics is the field of study that produces operators, technicians, and engineers who are qualified to support these sophisticated automation systems. Learners will study topics like the function of graphical simulation software, using demo mode to simulate mechatronics station operation, using MechaSIM to simulate a mechatronics PLC program, and simulating multiple stations using a pre-written mechatronics program in this eLearning courseware.

## In-Depth Curriculum

### In-Depth Mechatronics Simulation Curriculum

The MechaSIM Mechatronics Simulation in-depth, comprehensive curriculum provides a strong foundation in mechatronics simulation, including these major topics: graphical simulation; using demo mode to simulate mechatronics station operation; and using MechaSIM to simulate a mechatronics PLC program. The curriculum also features important hands-on skills to prepare learners for real-world situations, such as simulating programs for mechatronics systems using MechaSIM and simulating multiple stations using a pre-written program.

### Feature-Packed eBook Format Makes Learning Convenient

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## Simulate PLC Programs

### What is Graphical Simulation Software?

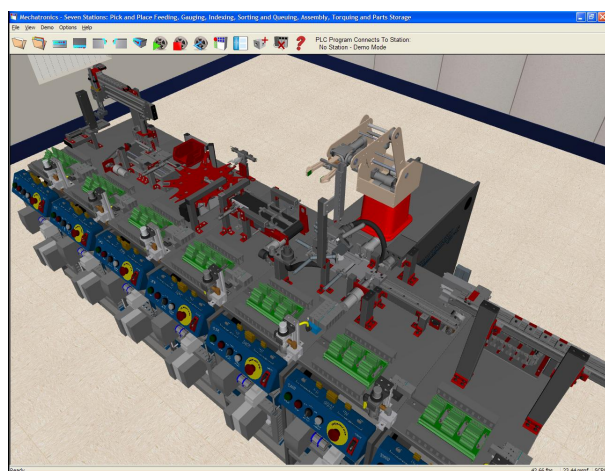
Graphical simulation software provides a virtual version of the real environment. This could be a single object or a

group of objects that interact with one another. A graphical representation of a PLC, for example, operates the same as a real-world PLC. The program operation is observed and modified until the program runs as intended. The resulting program can then be downloaded to the PLC and tested.

Graphic simulation software shows the operation of each piece of hardware in response to each input and output. The programmer can watch cylinders extend and retract, parts move from point A to point B, and so on. An example of geographical simulation software is the MechaSIM software. The program is downloaded to the PLC and the virtual Mechatronics stations are started. The operator monitors the operation from many different angles, watching for faults or collisions with hardware. This provides the programmer with the opportunity to test and modify the program before downloading it to the PLC connected to the hardware.

## Additional Info

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### Requires:

- Computer (see [Computer Requirements](#))

### Options:

- MechaSIM Mechatronics Simulation Learning System - AB CompactLogix L16 (87-MSSAB53A)

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### Address

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