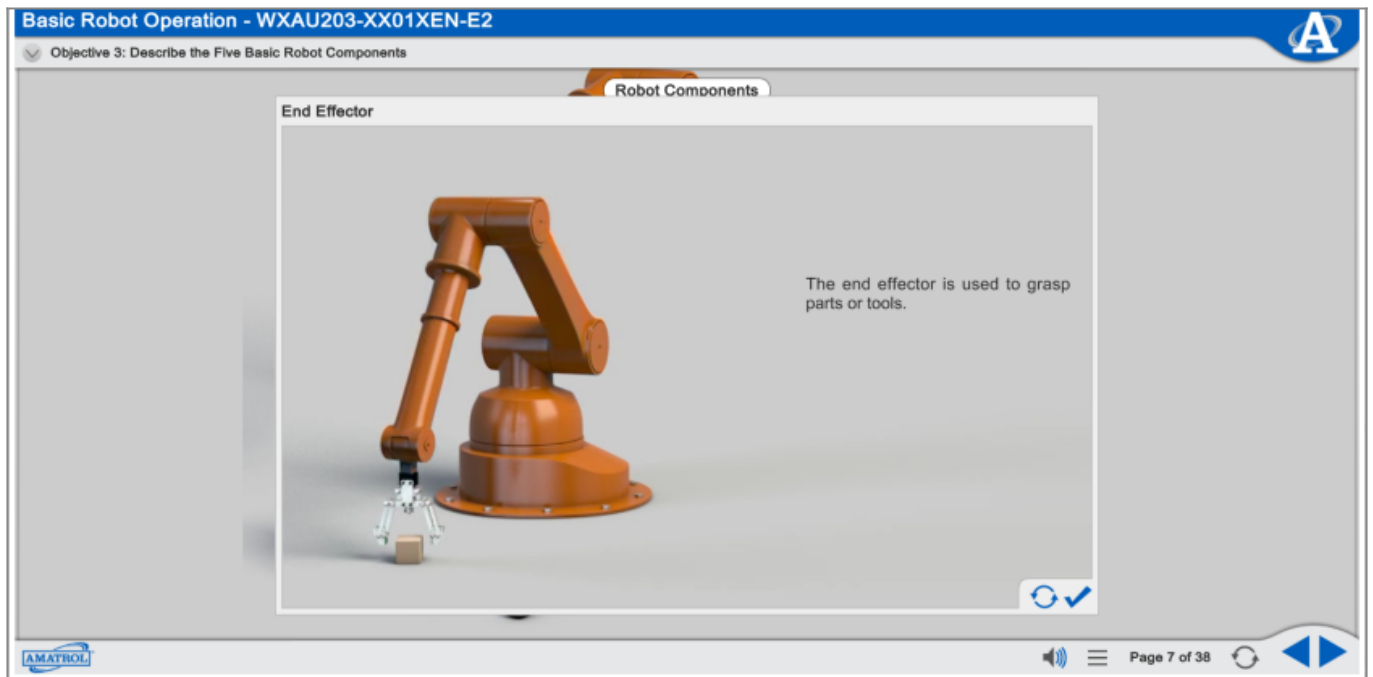


Principles of Robotics eLearning | Interactive Multimedia Curriculum



eLearning Course: MXAU203

The Principles of Robotics eLearning course reviews the principles of robotics, including robot applications and benefits, robot motion, configurations, and control. Using the ABB robot with an IRC5 controller as a model, the course uses 3-D graphics to allow the learner to practice automatic and manual operations. Specific objectives include: understanding how ABB robots are used; locating buttons, switches, and keys; automatic operations; and manual and advanced ABB operations.

In-Depth Curriculum

What is an Industrial Robot?

An industrial robot is an automatically controlled, reprogrammable multipurpose manipulator programmable in three or more axes. Robots are thought of by many people as being very human-like because they are often portrayed in this way in the movies. In some respects, this is true. Certain types of robots can move around in a room, and others use artificial intelligence to teach themselves. However, most robots look and act like an industrial machine.

Three features are needed to define a machine as a robot:

- Automated
- Reprogrammable
- Ability to Multitask

Many people believe that a robot is a machine capable of being reprogrammed and automated. However, programmable milling machines or a traffic light can be reprogrammed and automated. No matter how they are programmed, they still perform only one task: cut metal or turn on lights. The ability to perform different tasks

makes a robot different than all of the other machines. Today, robots are used in many different applications: assembly, material handling, welding, machine loading, painting, and gluing

Multimedia

Principles of Robotics eLearning Features Multimedia Curriculum

Amatrol's peerless interactive [multimedia](#) curriculum utilizes text with voiceovers, pictures, videos, stunning 3D animations, and interactive quizzes and reviews that engage learners in theoretical knowledge and concepts. This thorough, detailed curriculum begins with the basics and advances to complex concepts. Through partnerships with key industry leaders and leading educators, Amatrol developed the right balance of knowledge to train learners to work in their chosen field.

Click on the image below to view Amatrol's eLearning demo:

Anytime, Anywhere Access Promotes Self-Paced Learning

In today's fast-paced, technology-driven world, it's more important than ever to extend the reach of industrial skill training beyond the borders of traditional classrooms. Amatrol's eLearning meets the challenge for flexibility by offering in-depth, comprehensive technical skills training via an intuitive, easy-to-use web-based Learning Management System (LMS).

With anytime, anywhere online access, Amatrol's eLearning allows learners to set their own pace at home, on the job, in a traditional class setting, or a blended approach of these options. Click here to learn more about [Amatrol's eLearning and LMS](#).

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