

Basic Robotics| eLearning Course

Basic Robot Operation - WXAU201-XX01XEN-E2

Objective 11: Describe the Operation of the Homing Procedure for a Servo Robot

Homing Procedure Sequence

For example, a robot may perform the following homing sequence:

1. Shoulder (Axis 2)
2. Elbow (Axis 3)
3. Wrist Roll (Axis 5)
4. Wrist Pitch (Axis 4)
5. Waist (Axis 1)

Moving the shoulder axis first helps to ensure that the end effector is clear of any obstructions.

The waist axis is usually homed last because it could crash the end effector into an obstruction if the end effector was not already in its home position.

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eLearning Course: MXAU205

Amatrol's Basic Robotics eLearning course (MXAU205) covers basic robot operation and programming; interfacing and material handling; and flexible manufacturing cells. Within these topic areas, learners will study: the benefits of using robots; safety precautions to take when working around robots; pinch points on a robot; safety precautions to take when inside the robot cell; component axes of the robot; the purpose of end effectors; the keys, buttons, and switches associated with the control cabinet and teach pendant; and more!

Interactive eLearning

In-Depth eLearning Curriculum Connected to Real-World Skills

Amatrol's eLearning curriculum is unique in that it thoughtfully combines in-depth theoretical knowledge with practical, hands-on skills. This powerful combination of knowledge and skills solidifies understanding and creates a strong foundation for pursuing more advanced skills. Amatrol's eLearning integrates various types of learning methods to create an engaging, effective learning experience. Amatrol's multimedia [eLearning](#) curriculum includes text with voiceovers, videos, 3D animations, pictures, and interactive activities, quizzes, and self-reviews.

For example, the basic robotics eLearning course covers important topics, such as basic robot operation and programming; interfacing and material handling; and flexible manufacturing cells.

Free Learning Management System (LMS)

Amatrol eLearning is easy-to-use for both students and instructors. Its web-based interface is simple to navigate and available on any WebGL-compatible Internet browser. Instructors love Amatrol eLearning for its simple, yet sophisticated Learning Management System (LMS). The LMS allows instructors to create custom courses, monitor student participation, track course progress, assess knowledge levels prior to a course, and test knowledge levels after completion. Learners appreciate the fact that they can start and stop as needed, moving through each Amatrol course at their own pace. If a self-review reveals that they didn't understand a particular topic as well as they thought they did, they can revisit it before moving on.

Additional Info

Requires:

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

Options:

- Amatrol SkillTrace Software (94-ST1)

Address

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