

US311-S3 Robot Programming



The course goal is to teach students how to operate and program the robot using the teach pendant.

Course Duration: 4.5 days

Topics Include:

- Operating controls and indicators on the Robot Controller
- Safety precautions used while programming and program execution
- Selecting proper menus from the program unit for programming and program execution
- Positioning the robot by use of joystick control
- Advanced programming principles including:
Sub-programming, Reference point program control, Storing Positional Locations, and Palletizing.

Course Objectives

After successfully completing the course, the participant should be able to:

- Understand basic robot safety principles
- Control panel operation
- Program unit operation
- Understand programming structure and language

Create programs including:

- Function instruction
 - ⇒ Positioning instructions
 - ⇒ Conditional I/O instructions
 - ⇒ Use of sub-programs
 - ⇒ Basic adaptive programming
- Perform manual functions and system setup
- Transfer of programs to and from disk
- Edit programs or instructions
- Interpret system diagnostic messages
- Clear minor operation faults

Student Profile

- Engineers
- Service personnel
- Machine operators
- Supervisory personnel

Prerequisites

- No formal requirements
- Previous experience working with the robot is helpful