

S4 Basic programming course

Course Description



Course Duration

The duration is 4 days.

Course Type

This is an instructor led course. Approximately 75% of the time is used for hands-on labs and exercises.

Course Goal

The goal of this course is to teach students the basics in programming industry robots with an S4 controller.

Student Profile

This training is targeted to robot programmers and service engineers that need to modify robot programs.

Prerequisites and Recommendations

None

Course Objectives

Upon completion of this course, students will be able to:-

- Practice all areas of safety as it pertains to the robot.
- Properly start-up, operate and shut down the robot.
- Perform program storage and retrieval.

- Manual and program control of inputs and outputs.
- Define tools and work objects.
- Edit programmed positions.
- Create a program with subroutine structure.
- Program instructions, such as output control, decision-making, operator dialog and clock.
- Name I/O and data with proper names.
- User Module programming techniques.

Main Topics

- Basics in robot programming
- Structured programming
- Conditional control
- Digital I/O signals
- Communication with operator
- Define and use tools
- Define and use work objects
- Create/define offset
- Event log
- Backup and restore

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