

The Robot Training Centre, Milton Keynes

Course Outline



S4C+ to IRC5 Upgrade

Duration: 2 days

Will benefit: Team leaders, Maintenance and Operational staff who need an Introduction to IRC5.

For more in-depth knowledge and practice, choose the IRC5 Programming and Operation and IRC5 Electrical maintenance courses.

Pre-requisite: Prior attendance of S4 Programming and operation course.
Knowledge of S4C+RobtInstall software and Booting procedure.

Subject Areas:

Introduction to the key benefits of IRC5

- New products and features
- Cabinet Architecture and Performance
- FlexPendant Overview
- MultiMove concepts
- IRC5 Software packages

Using the FlexPendant

- ABB Menu
- Overview of all the listed Windows
- Cleaning and calibrating the FP screen
- Rotating the FP screen for LH users
- Event messages
- Restart menu and advanced restart options
- User messages window and icon
- Setting up the 'Most Common' Inputs and Outputs
- Simulating Inputs and Forcing Outputs

Program operation

- 'Production Window' and 'Program Editor'
- Motion pointer and Program pointer
- Debug menu

Jogging the Robot

- Jogging window and Quickset menu
- MultiMove Jogging

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S4C+ to IRC5 Upgrade (Cont)

Programming and Program Editing

Adding and Modifying Instructions

Program Structure

Robot Tasks

Program Modules, Routines and Program files

Backup and Restore

Loading old S4 programs (.prg)

TCP and Workobject definition windows

Coordinate Frames theory and methods of definition

RobotStudio^{Online} 'RSO'

Connecting PC through the service port

Grant / Revoke Access

Program Editing

Build system and download

User Authorisation System 'UAS'

Parameter editing theory

Switching Inputs and Outputs

Objectives: On completion of this course the participants will be able to:

- ☒ Understand Key benefits of IRC5 over S4C+
- ☒ Operate the FlexPendant menus
- ☒ Operate a program
- ☒ Event messages and Error recovery
- ☒ Jog the Robot
- ☒ Edit Program
- ☒ Backup and Restore
- ☒ Understand the functions of RobotStudio^{Online}