Robotics

S4C Plus and IRC5 Upgrade

Course Outline

Duration 2 days

Beneficial to programmers, operators and maintenance staff

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

Students must have attended the S4 Programming and operation course and have Knowledge of S4C+RobInstall software and Booting procedure

Subject areas

Safety Instructions

Emergency stops Enabling device Cell interlocking and modes of operation Brake release and Pinch points Program reset and Collision awareness

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 user 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

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

RobotStudio5 Online

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

On completion, participants will be able to perform:

- ☑ 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 Online functions of RobotStudio