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+RobInstal 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

Objectives:
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