Course Outline
Duration 2 days
Beneficial to candidates who have previously attended the S4 Operator or S4 programming and Operation courses

Subject areas

Safety Instructions
Cell entry and Interlocking
Teach velocity & Enabling device
Pinch points
Collision awareness when changing flow during operation
Emergency stops and recovery
Operating the Brake release

System Description
Robot and external mechanical units
Operators panel and Teach pendant
Controller Start up and Shut down procedures

Program Operation
The program Test and Production windows
Manual and Automatic modes of operation
The Program Pointer and Cursor
Error identification and recovery
Modifying positions and Editing Offsets

Jogging the robot using the joystick
Axis and Linear jogging
Co-ordinate systems
Tool Re-Orientation and Alignment to coordinate axis
Increments

Tool Centre Points and Work Objects
Theory and methods of definition

Robot Calibration
Course Calibration (Rev counter update)
Fine Calibration theory

Modules
System and Program
Saving and retrieving a program (Floppy disc & RAM disc / Hd0a)
Backup and restore. (S4C, S4C Plus)

Instructions revised
MoveJ, MoveL, MoveC and Move ABSJ
WaitDI and Wait Until
Set and Reset, SetDo
TP erase / TP write, TP Read NUM / TP Read FK
IF
While
For
Test
Increment / decrement

Objectives
On completion, participants will be able to perform:

☑ Safe robot operation
☑ Pendant operation
☑ System start up, shut down and error recovery
☑ Update motor revolution counters
☑ RAPID programming and editing
☑ Position the arm using the Joystick
☑ Tool and Workobject definition
☑ Backup and Restore system information