

UK R551 IRC5 Operator

Course Outline

Duration 2 days

Beneficial to Robot Operators and maintenance staff

Subject areas

Safety Instructions

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

System Description

Robot and external mechanical units
Control system, Operators panel and FlexPendant
Start up and Shut down procedures

Program Operation

Starting, stopping and stepwise program operation
The program Editor and Production windows
Teach, Test and Production operation
Override speeds
Continuous & Cycle running modes
The Program and Motion pointers

Jogging the robot using the joystick

Axis and Linear jogging
Tool Re-Orientation
Coordinate systems
Jog speed and incremental positioning

Event messages and logs

Error identification
Recovery

Changing a Program

The program Editor
Move instructions (MoveJ, MoveL & MoveC)
Modifying Positions

Tool Centre Points

Tool centre point appreciation

Work object coordinates

Workobject appreciation

Using Inputs and Outputs

Input / Output signal appreciation
Input Output window
Operating Wait input instructions

Program Structure appreciation

Routines and program flow
Debug menu and program reset
Modules
Backup and Restore
Mass memory storage (hd0a and memory stick)

Objectives

On completion, participants will be able to perform:

- ☒ Safe program operation
- ☒ FlexPendant operation
- ☒ System start up, shut down and error recovery
- ☒ Jog the robot with the Joystick
- ☒ Modify program positions
- ☒ Backup and Restore system information