

# 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