

# IRC5 Electrical Maintenance

## Course Outline

Duration 3 days

Beneficial to Service engineers and person responsible for electrical maintenance

Students must have attended the IRC5 Operator course or have an extensive working knowledge of the topics covered.

## Subject areas

### Safety Instructions

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

### System Description

Robot and external mechanical units  
Control system and Operators panel  
FlexPendant

### Event messages and logs

Error identification  
Recovery

### RobotStudio online

Building robot operating system and download to controller  
Edit Input / output parameters  
Set up FlexPendant 'User Authorisation'

### Servo System

Fault finding on drives  
Drive system component recognition

### Computer System

Fault finding on computer  
Computer component recognition

### Safety Chains

Fault finding on safety chains  
Safety chain component recognition

### Calibration

Robot calibration and measurement system  
Fault finding exercises

### I/O System

Configuring I/O units and signals

### Objectives

- On completion, participants will be able to perform:
- Trouble shooting
  - Preventative Maintenance
  - Restart procedures
  - Operate RobotStudio online
  - Installation and update of RobotWare operating systems
  - Backup and Restore system information