ELECTRICAL MAINTENANCE

ROBOTS | MAINTENANCE

RUNNING TIME

4 days (spread over 5)
Monday: 13.30 - 16.00
Tuesday: 09.00-16.00
Wednesday: 09.00-16.00
Thursday: 09.00-16.00
Friday: 09.00-12.00

COSTS

£ 1,850 per person
Lunch is provided

* For a scheduled training session, cancellation/postponement must be received by email, at least 30 days prior to the course start date to avoid a charge of 50% of the course fee. If the cancellation/postponement is received with less than 14 days' notice, 100% of the course fee will be applicable, and the place will be charged for again at full price if re-booked. In addition, FANUC UK reserves the right to cancel, postpone or otherwise delay training.

IMPORTANT NOTE

This course is only recommended for delegates who already possess a basic understanding of mechanical systems and are electrically competent. We would also advise that delegates should have previously either attended our Standard Teach Pendant Programming course, or have acquired sufficient programming experience.

COURSE OVERVIEW

This course is targeted at Electrical or Mechatronic Maintenance Engineers. In addition to presentations and demonstrations, this course offers a series of lab exercises for the student to complete. Lab exercises relate directly to the classroom presentations and are intended to reinforce what the student has learned through actual hands on experience. Recommended safety procedures are integrated into all training exercises.

OBJECTIVES

Upon completion of this training course the student will have an understanding of:

- Programming a FANUC robot
- Identifying robot/controller hardware and attain a basic theoretical understanding of the control system elements
- Fault finding of the robot control system using built-in diagnostics
- Mastering the robot
- Manage I/Os
- Preventative maintenance procedures and schedules
- FANUC telephone support requirements and procedures

SUBJECTS COVERED

- Safety
- Safe working practices with robots
- Basic configuration of a typical robot
- *i*Pendant configuration
- Jogging coordinates
- Robot recovery from a mid cycle stop
- Simple program creation
- Setting up tool and user frames
- Using I/O instructions
- Electrical maintenance and fault finding
  - Detailed explanation of components of the robot control and robot and how they work
  - Practical examples of electrical maintenance
  - Exchange of components
  - Practical exercises fault finding on the robot control and robot
- Mastering
- Payload setting
- Masking control system backups
- Escaping from an unsafe DCS zone