

ADVANCED (MECHANICAL) 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

£ 6,500 per group of up to 4 people
Maximum of 4 students
per course
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.

COURSE OVERVIEW

This course is designed for maintenance personnel who are responsible for maintaining the robot and controller. The course covers mechanical troubleshooting of the robot and controller. In addition to presentations and demonstrations, the course offers a series of lab exercises for the student to complete. Lab exercises relate directly to the classroom presentation and are intended to reinforce what the student has learned through hands-on activities. Recommended safety procedures are integrated into all training exercises.

OBJECTIVES

Upon completion of this training course the student will be able to:

- Understand the basic robot movements
- Disassemble and reassemble a FANUC robot
- Disassemble and reassemble a FANUC controller
- Test the robot characteristics with basic programs
- Resolve common faults
- Proceed to regular preventative maintenance
- Be familiar with FANUC telephone support requirements and procedures

SUBJECTS COVERED

- Robot general characteristics
- Robot safety and awareness
- Robot, controller and operator panel description
- Basic program creation
- Backing up procedures
- Removal/strip down and replacement of controller modules – amp/CPU/power supply/e-stop unit etc.
- Removal/strip down and replacement of mechanical unit – motors, pulse coders, internal gears etc.
- Use of FANUC manuals/connection diagrams
- Recovering software from backups/images
- Resolving faults associated to include mastering
- Preventative maintenance procedures and schedules
- Greasing procedures and techniques