

# US382-Trallfa 510

## Mechanical Maintenance



The course is designed to teach students how to identify the mechanical components, proper disassembly and assembly of the robot, and preventive maintenance on the Traffa 500 robot.

**Course Duration:** 3 days

### **Topics Include:**

- Operation of robot control and mechanical unit
- Safety precautions used while doing mechanical repair
- Description and operation of mechanical components
- How to use the manual for repair and ordering of spare parts

### **Student Profile**

- Skilled tradesmen and technicians responsible for mechanically maintaining the robot

### **Course Objectives**

*After successfully completing the course, the participant should be able to:*

- Correctly practice all areas of safety that pertain to the robot system
- Describe the robot system and identify it's major components
- Describe the use of special lubricants used in the robot and identify where they are needed
- Document the special tools needed to perform mechanical maintenance on the robot
- Demonstrate and incorporate into procedure the safe use of assembly / disassembly techniques on the IRB500 robot arm
- Describe the means and methods used for mechanical movement of each axis
- Be able to indicate in the documentation where backlash adjustments can be found for all parts of the robot
- Describe the use and layout of the spare parts catalogue for replacement part ordering

### **Prerequisites**

- Mechanical background or experience with automated machinery is helpful