

ABB Robot Mechanical Maintenance

Course Outline

Duration 3 - 5 days depending on type of manipulator
Beneficial to maintenance staff

Students must have attended the Operator Course or have a thorough working knowledge of the topics covered; also competence in servicing mechanical automation.

Subject areas

Safety Instructions

Emergency stops
Safety & Overview
Introduction
Documentation
Mechanical manipulator overview
Safety
Special tools

Strip Down and Re-assemble

Motor removal and replacement
Complete wrist change
Upper arm removal and complete strip down
Lower arm removal
Cable harness removal

Maintenance

Preventative maintenance schedule & routines
Lubrication requirements
Practical exercises in maintenance & faultfinding

Service

Review of programming techniques
Possible failure points
Re-calibration procedures

Summary & Conclusion

Objectives

On completion, participants will be able to perform:

- Understand Mechanical repair and component replacement
- Understanding of internal robot workings
- Preventative maintenance procedures