



ROBOT PROGRAMMING AND MAINTENANCE



Objectives

- Be able to analyse and program simple applications (part grip and release)
- Be able to fix an electrical problem
- Be able to carry out preventive maintenance



Program

PRINCIPLES OF THE NUMERIC CONTROL SYSTEM

- Hardware
- Safety
- Procedures for starting production
- Production : start-stop

CREATING CYCLES

- The Simple Pick & Place module
- Creating cycles with Simple Pick & Place
- The cycle parameters

PROGRAMMING

- Program structure
- Basic instructions
- IMM / Robot interface
- Creating and analyzing a production cycle

TROUBLESHOOTING

HARDWARE ARCHITECTURE

- The pneumatic movements
- CAN bus
- The work zones
- The numeric movements
- The peripherals
- The pendant
- Safety
- IMM / Robot interface
- Inputs / Outputs
- Repairing failures

THE MACHINE CONFIGURATION

- The general parameters
- Calibrating the numeric axes

PREVENTIVE MAINTENANCE

- Pneumatic, mechanic and electric



Training Methods

All of our courses are based on alternating between the transfer of know-how and good practice, with concrete exercises and real-life situations.

All trainees will be given a folder containing the documents, exercises and corrections of the practical work done during the course.



Assessment Methods

Trainees are assessed by the trainer for each module to measure the knowledge acquired at each step of the course, through practical work.

Date

To be determined

Place

The SEPRO Campus (La Roche sur Yon/85)
The training center (Groissiat/01)

Duration

4 days or 2+2 days / 28 hours

Target trainee

Setters
Maintenance technicians
Methods technicians

Number of participant

3 to 8 people maximum

Equipment

Rooms equipped with board (interactive, paperboard, white board, video projector)
Provision of robots with control systems (1 robot for 2 to 3 people)

Required knowledge

Be allowed to intervene in an electrical cabinet under voltage

Access to training

A copy of the electrical accreditation certificate must be provided before the start of the session

Formalization of the training

Attendance sheet provided by SEPRO