



BASIC COURSE PROGRAM "ELECTRICAL/SOFTWARE MAINTENANCE"

GOALS:

Notes about most important components in order to perform the first intervention on light damages

PERIOD: 1 day

CONTENTS:

Theoretical part

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- Safety (locate warning labels, safety devices, loc)
- Knowledge of machine – groups/components – performance.
- Knowledge of auxiliaries (hydraulic, pneumatic, coolant)
- Coding and searching of electrical devices on the electrical drawings (referred to customer coding system)
- Position and use of electrical devices.
- Replacement of modules, encoders and other electrical devices.
- Axes zero position searching.
- Alarms and messages management.
- Review of machine data/parameters.

Practise part

The following operators skills will be checked directly on the installed machine:

- Devices location
- Most frequent/complex damages searching (troubleshooting simulation)

Please organize groups (max 4-5 operators)



ADVANCED COURSE PROGRAM "ELECTRICAL/SOFTWARE MAINTENANCE"

GOALS:

Probing about all electrical/electronic topics, with practise tests directly on the machine.

PERIOD: 3 days

CONTENTS:

Theoretical part (1st day)

- Safety (locate warning labels, safety devices, lockouts ...)
- Knowledge of machine – groups/components – performance.
- Knowledge of auxiliaries (hydraulic, pneumatic, coolant)
- Coding and searching of electrical devices on the electrical drawings (referred to customer coding system)
- Position and use of electrical devices.
- Replacement of modules, encoders and other electrical devices.
- Axes zero position searching.
- Electric motors settings.
- Use of PLC program (Siemens Step 7).
- Alarms and messages management.
- Review of machine data/parameters.

Practise part (2nd - 3rd day)

The following operators skills will be checked directly on the installed machine:

- Devices location
- Components replacement and axes zero position searching.
- Review of machine data/parameters.
- Most frequent/complex damages searching (troubleshooting simulation)

After course end a test will be done, followed by a debate on its results, to verify the understanding of the topics. Please organize groups (max 4-5 operators)