

Advanced Training Course

Electrical - Hardware





Number of days: 2

Subjects:

- Beckhoff Modules
- Application into AsepTec®
- Electrical Architecture
- Focus on the SPNOSS (safety PLC)
- Training on Emerson Parts
- Beckhoff I/O cards

Course material:

Electrical components

A two day hands-on advanced training for technicians. The training includes the following topics.

- Technical electrical design knowledge
- Material knowledge
- LED & software diagnostics
- Software tools for maintenance
- Practical tips and tricks for electrical maintenance
- Hands-on training parameter settings devices
- Electrical maintenance

4 hours of machine availability desired.

On completion of this course the participants will have the knowledge required to perform maintenance on electrical Beckhoff components.

1.5 day classroom and half a day hands-on.



Approx. 6 participants, location: 'on site', machine availability: 4 hours, language used: English

Entry level of participants: Intermediate technical working and comprehension level



Introduction (1 hours)

General introduction into the course. Defining needs of the group.



■ Machine Design (3 hours)

Covering the following topics: Machine Architecture, Reading Electrical Schemes and used Materials.



Detailed topics (3 hours)

Explanation of the Beckhoff I/O cards, Beckhoff system manager, PNOZ multi (safety PLC), Frequency drives (emerson) and CT software.



Tour around Machine (1 hours)

Trainer will show electrical components.



Wrap up day one (0.5 hours)

There will be time for questions of the group and evaluate the day.



■ Maintenance training (4 hours)

A variety of maintenance topics will be addressed. As well topics regarding industrial networks, EMC/EMI and do's and don'ts.



Practical: Drive programming (2 hours) (machine available!)

On completion of this module the participant is able to download parameters and program new Beckhoff components when exchanged.



Practical: fault finding (2 hours) (machine available!)

On completion of this module the participant is able to find fault as a ethercat fault.



Wrap up day two (0.5 hours)

More room for questions and evaluation.

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