

b'train

train'repair



Because we care

Target group

- ◆ Service and maintenance personnel

Objective

- ◆ You can recognize and minimize accident hazards
- ◆ You know the safety rules for troubleshooting
- ◆ You are familiar with the electrical control system of the machine
- ◆ You can inspect, set and optimize electrical machine components
- ◆ You learn the systematic procedure for eliminating operating faults (help you to help yourself)
- ◆ You gain basic knowledge of the possible causes of faults and their remedies

Condition

- ◆ Experience in the handling of glass
- ◆ Electrical engineering training or comparable know-how

Content

- ◆ Explanation of the functions and the safety concept with practical demonstration
- ◆ Basic operation of the machine
- ◆ Fundamental introduction to the electrical control system of the machine
- ◆ Machine communication
- ◆ Presentation of the electrical basic positions of all machine components
- ◆ Recognition, inspection, replacement and setting of the electrical components on the machine
- ◆ Systematic procedure for troubleshooting on the machine
- ◆ Explanations on safety during troubleshooting
- ◆ Presentation of possible problems that can occur, their causes and remedies

b'train train'repair



Because we care

Training duration and costs

Machine/System	Duration	Amount
◆ champ'speed without drilling machine	2.5 days (20.5h + 2h)	€ 2.800.–
◆ champ'speed with drilling machine	3 days (23h + 2h)	€ 3.125.–

Working hours

◆ Normal working hours	Monday to Friday (up to max. 8 hrs/day)
◆ Overtime	Saturday, Sunday and Night (8.00 p.m. – 6.00 a.m.) € 187.50 / hour

Travel expenses

- ◆ The travel expenses are invoiced according to expenditure

Hotel and expenses

- ◆ Hotel and expenses are invoiced according to expenditure (see country table)
- ◆ Included with a new system installation

Number of participants

- ◆ Minimum 1 participant, Maximum 6 participants

Training location

- ◆ At the machine location
 - ◆ A meeting room with a projector is preferable
- Note: The practical training is performed on the machine / no production**

Materials required for the training (provided by the customer)

- ◆ Flipchart
- ◆ General tools
- ◆ Internet access for spare parts catalog (SPC)

Day 1		Day 2		Day 3	
Time	Topic	Time	Topic	Time	Topic
8:00 – 8:45	Welcome and General Points on Safety	8:00 – 8:30	Learning Objectives Test – Day 1	8:00 – 8:30	Learning Objectives Test – Day 2
8:45 – 10:15	Description of the Machine	8:30 – 9:00	Reading of the Electrical Circuit Diagram	8:30 – 10:00	Replacement of Electrical Components: Transfer Station
10:15 – 11:45	Operation of the Machine	9:00 – 9:45	Presentation of Switch Cabinets and Components	10:00 – 11:00	Spare parts catalog (SPC)
11:45 – 12:45	Lunch break	9:45 – 10:00	Sick light barriers	11:00 – 12:00	End of Training
12:45 – 14:30	Safety during a Malfunction	10:00 – 12:00	Maintenance and Settings at the Cutting Machine without Tools		
14:30 – 15:15	Communication	12:00 – 13:00	Lunch break		
15:45 – 16:15	Safety controller	13:00 – 14:30	Cutting tool		
16:15 – 17:15	Systematic Fault Analysis	14:30 – 16:45	Grinding machine GMP		
17:15 – 17:30	End of Day	16:45 – 17:00	End of Day		

Day 1		Day 2		Day 3	
Time	Topic	Time	Topic	Time	Topic
8:00 – 8:45	Welcome and General Points on Safety	8:00 – 8:30	Learning Objectives Test – Day 1	8:00 – 8:30	Learning Objectives Test – Day 2
8:45 – 10:15	Description of the Machine	8:30 – 9:00	Reading of the Electrical Circuit Diagram	8:30 – 10:00	Replacement of Electrical Components: Transfer Station
10:15 – 11:45	Operation of the Machine	9:00 – 9:45	Presentation of Switch Cabinets and Components	10:00 – 13:00	Drilling machine DMC
11:45 – 12:45	Lunch break	9:45 – 10:00	Sick light barriers	13:00 – 14:00	Lunch break
12:45 – 14:30	Safety during a Malfunction	10:00 – 12:00	Maintenance and Settings at the Cutting Machine without Tools	14:00 – 15:00	Spare parts catalog (SPC)
14:30 – 15:15	Communication	12:00 – 13:00	Lunch break	15:00 – 16:00	End of Training
15:45 – 16:15	Safety controller	13:00 – 14:30	Cutting tool		
16:15 – 17:15	Systematic Fault Analysis	14:30 – 16:45	Grinding machine GMP		
17:15 – 17:30	End of Day	16:45 – 17:00	End of Day		