



KRONES Academy
2008 Programme

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Profit From Your Expertise

Dear Customers,

How does a motorcyclist manage to avoid the unexpected when an animal suddenly dashes out into the road? It's down to expertise that's acquired over time. Good motorcyclists start with lessons in theory and practice, acquire driving experience and then extend their expertise with advanced skills training.

Expertise – in other words the sum total of capability and skills to be able to react to unexpected events – is beneficial for all filling operations. The more it is brought to bear, the faster malfunctions can be rectified, down-times avoided and quality problems eliminated.

We'll support you all the way: as well as providing training courses when new machines are commissioned, you'll find here a selection of seminars to train up new members of staff faster or to extend the expertise of experienced colleagues further. So they don't go off the rails.

Expertise improves staff morale. And your filling plant's results, bringing in greater efficiency, minimal wear and a longer service life for your machines, which is all to your profit.

We look forward to welcoming you.



Yours, Dr. Jörg Puma

General KRONES Electrical System

This seminar covers a summary of the electrical system installed in most KRONES machines. It is a foundation course for subsequent machine-related courses and is recommended for experienced and newly appointed technicians.

Participants learn how to restore the production capacity of their KRONES machines quickly, when general electrical malfunctions occur. Particular emphasis is placed on data security, effective diagnosis and the replacement of specific defective electrical components. It begins with the details and handling of KRONES wiring diagram systems and provides a basic understanding of individual bus systems, such as ProfiBus and AsiBus. Practice exercises in changing the encoder or frequency inverter are carried out in the »HANDS ON« part of the course. Employees gain confidence in working with the touch-screen and learn how to work with the User Management screen as well as production-related data.

Course: SST 01

Target group:

Electricians

Prerequisite: Basic knowledge of electrical systems

Content:

Diagnosis, replacement of components and data security are all incorporated (as far as possible) into the following topics:

- Subtleties of the KRONES electrical wiring diagram system
- Principles of the AS-Interface bus system
- Principles of the ProfiBus system
- The Danfoss FC300 / VLT5000 frequency inverter and MCT10 software
- The touch-screen operating system with ZenOn software
- Standard encoders

Duration: 2 days

The LDS Line Data Storage System

This course enables employees to work effectively with the LDS system. This includes specific access to processed real-time and historic LDS system data. The user will be able to compile and analyse the required information fast, using different LDS modules.

Course: SST 02

Target group:

Line managers, heads of production, shift supervisors, maintenance staff, administrators, users

Content:

- Design and system requirements (hardware management, client/server system)
- DATA MONITOR (real time visualisation of current production)
- DATA CHART (charts and trend analyses)
- DATA REPORT (optimisation of weak-points through field-tested and configurable reports, specific access to operating status reports, counter values, analogue data, malfunctions and messages)
- DATA ARCHIVE (long-term archive storage)
- DATA CONTROLLER (processing of information)
- DATA CONFIGURATOR (system configuration)
- DownanalyseKit *
- ReportKit *

* optional - please note that training will be provided where this is included in the delivery scope of the LDS system

Duration: 2 days

SIPS Intelligent Plant Maintenance System

The SIPS service and maintenance program fulfils the requirements for successful maintenance planning and reduces the life-cycle costs of a filling and packing plant. SIPS' preventative maintenance mechanisms eliminate plant failures or reduce them to a minimum and maintenance intervals can be tracked specifically. Existing plant data can also be integrated into SIPS, tailored precisely to the operational requirements of your company.

Course: SST 03

Target group:

Heads of production, maintenance staff, purchasing

Content:

- RAG status functions
- Jobs and instructions
- Activating, withdrawing and placing of jobs
- Job feedback
- Clearing messages
- Creating jobs from messages
- Reports
- Configuration

Duration: 2 days

Siemens S7 Basic Course

The principles of Siemens PLCs are covered using examples and practice exercises. Participants learn how to work properly with S7 and will therefore be able to use it effectively in their daily work. The course is specially designed for KRONES filling machines.

Course: SST 04

Target group:

Electricians and maintenance engineers

Prerequisite: Basic knowledge of data processing (Windows).

Participants should have a current version of the Simatic Manager system.

Content:

- PLC hardware components and peripherals
- Data security
- Diagnosis capabilities and fault analysis
- Project documentation
- Current user software
- PLC program sequence
- Types of data block
- Data block editor
- Online functions

Duration: 4 days

Siemens S7 Advanced Course

This course acquaints participants with the further capabilities available with S7. Using examples and practice exercises, they are trained in the S7's extended programming capabilities enabling employees to use the control efficiently. This course is also designed for KRONES components.

Course: SST 05

Target group:

Project engineers, electricians, fitting engineers, maintenance engineers

Prerequisite: Participation in the Basic Course or equivalent previous knowledge. Participants should have a current version of Simatic Manager.

Content:

- Networking technology
- ASI Gateway configuration
- Indirect addressing
- Word programming
- System functions
- Software tools
- Signal transmission using Ethernet
- Working with ProfiBus components
- Effective trouble-shooting

Duration: 4 days

Contiform S Compact Course for Operators

The aim of the training is to provide basic knowledge relating to the blow moulder to achieve a clear understanding of machine function. At the end of the training, participants will be able to start the machine, operate the touch-screen and rectify minor faults. Lubrication intervals and positions are also explained.

Course: SKT 01

Target group:

Operators

No previous knowledge required

Content:

- General information on the Contiform
- Explanation of mechanical components
- Overview of process technology
- Importance of lubrication system
- Important touch-screen functions
- Starting the machine and changeover

Duration: 2 days

Contiform S Basic Course

Participants gain an understanding of the machine's processes and relations and will be able to find their way around the touch-screen. They will then be able to operate the machine without assistance and identify and rectify specific malfunctions.

Course: SKT 02

Target group:

Operators, mechanics and electricians
No previous knowledge required

Content:

- Construction and function of the Contiform
- The pneumatic system
- The touch-screen menu structure
- Maintenance and lubrication
- Setting up procedures
- Basic principles of electrical system

Duration: 3 days

Contiform S Electrical System

Explanation of the Contiform S machine electrical system. The aim is to achieve effective trouble-shooting using – and applying an understanding of – all resources and components.

Course: SKT 03

Target group:

Electricians and mechanics with knowledge of electrical systems

Content:

ZenOn 6.2o visualisation

- Dealing with alarms and trouble-shooting
- Data security, type and user management

Electrical layout of machine

- Reading, understanding and using Racos electric diagrams
- Zero reference point correction after replacement of absolute encoder components
- B&R control and blowing curve recording
- Heating process, trouble-shooting, HC network heating control diagnosis
- LCC controller/width measurement (optional)

Duration: 1 day

Contiform S

Mechanical Settings/Maintenance

The aim of the training is to identify machine malfunctions at an early stage, to locate the causes and to rectify them.

Course: SKT 04

Target group:

Operators, mechanics and maintenance personnel

Prerequisite: Basic Training Course

Content:

- Overview of the individual components of the Contiform S8 with touch-screen
- Practical exercises in setting up the mould hanger, stretching unit, cams and heating module
- Transfer synchronisation
- All there is to know about machine lubrication and cleaning

Main machine: Contiform S8

Duration: 2 days

Number of participants: 5 max.

Contiform S Process Technology

At the end of the course, participants will be able to set up new types of bottles (standardised bottles) and maintain a consistently high standard of bottle quality.

Course: SKT 05

Target group:

Experienced operators, process managers,

Quality Management personnel

Prerequisite: Basic Training Course

Content:

- Basic knowledge of PET
- Overview of process-critical factors
- Explanation of parameter-setting and optimisation for »new« bottles
- Recipe operation and management
- Significance of process parameters in relation to preform and bottle specification
- Practical exercises with the machine for the setting-up of new bottles

Main machine: Contiform S8

Duration: 2 days

Number of participants: 5 max.

Contiform S System Technology/ Electrical System

The course is a practical demonstration of the KRONES plant philosophy and the related network and control technology. At the end of the course, participants will be able to operate the function units and carry out effective trouble-shooting.

Course: SKT 06

Target group:

Electricians, mechatronics engineers, administrators

Content:

- Overview of the principles of networking technology
- Basic knowledge of control technology/Step 7
- Explanation of user software
- Effective trouble-shooting and fault diagnosis
- Design and configuration of network topologies
- Working with ZenOn 6.20 visualisation
- Detailed explanation of the electrical layout and operation of the machine
- Practical exercises with the machine/Siemens Step 7

Main machine: Contiform S8

Duration: 4 days

Number of participants: 5 max.

Bottle-Cleaning Machines

Workshop for all machine types
(except for Spiragrip)

This training course equips participants with sound specialist knowledge about the bottle-cleaning machine. Afterwards, they will know the important aspects of cleaning, be able to apply the correct dosage of cleaning agent and carry out the necessary laboratory tests to guarantee the highest quality standards and productivity rates.

Course: SRT 01

Target group:

Maintenance staff, electricians, Quality Management personnel
No previous knowledge required

Content:

- Method of operation
- Introduction to process engineering
- Differences in cleaning machines
- Cleaning, servicing and maintenance
- Electrical components
- Replacement of assemblies
- Trouble-shooting

Duration: 5 days

Spiragrip Process / Mechanics / Control Workshop

This workshop provides a sound insight into Spiragrip cleaning and process technology. Selected topics are discussed in dialogue with participants, and suggestions are developed for solutions to potential problems. After this workshop, participants will be able to set the machine up and provide fast and effective maintenance.

Course: SRT 02

Target group:

Management, Quality Assurance, technicians, maintenance personnel
No previous knowledge required

Content:

- Cleaning and process technology: temperatures, chemicals, fill levels, liquid progression, treatment process, removal of labels and contaminants
- Drive technology (mechanical and electrical)
- Cleaning, servicing and maintenance
- Trouble-shooting
- PLC program
- Electrical components

Duration: 5 days

VODM Volumetric Filler

Basic knowledge is provided for filling the VODM Filler to achieve improvements in production and failure-free results in the following sectors:

- Still drinks, e.g. still mineral water, various juices, etc.
- Carbonated drinks, e.g. sparkling mineral water, lemonade, etc.

Course: SFT 01

Target group:

Maintenance personnel, shift supervisors, machine operators

Content:

- Explanation of the various filling processes
- Explanation of mechanical parts, incl. service and maintenance
- Basic knowledge in process engineering
- Cleaning and disinfection
- Hygienic aspects and hygienic conduct and working on – and in the vicinity of – the machine
- Information exchange between participants

Duration: 4 days

Mecafill VKP

This training course provides basic knowledge of a VKP filler. Participants learn about product-friendly, failure-free filling which guarantees the quality of the filled product.

Course: SFT 02

Target group:

Maintenance personnel and machine operators with a maintenance role

Content:

- Method of operation of filler and capper
- Basic knowledge of filling
- Service and maintenance

Duration: 4 days

Filler Electrical System (Example)

Participants gain an understanding of the process technology used and the machine's electrical components related to this. This knowledge will enable participants to restore the production capacity of their KRONES machines quickly in the event of a malfunction. Employees learn about the parameterisation of control systems, data security, effective diagnosis and the replacement of specific defective electrical and electronic components. An interactive learning support programme ensures that what has been learned is put into practice.

Course: SFT 03

Target group:

Electricians, prerequisite: previous participation on the »General KRONES Electrical System« course

Content:

- System overview
- Machine functions: touch-screen, level and pressure control, height adjustment, crowner or capper, HPI – where fitted.
- Method of operation and hardware configuration of filling valve control
- Communication routes for control components
- Operation, parameterisation and diagnosis
- Parameter security of machine and filling valve control
- Procedure for replacing control components
- Capper head control with servomotor, where fitted
- SCS (Servo Capping System)
- Method of operation, parameterisation, fault diagnosis and rectification

Duration: approx. 2 days (depending on type of machine)

We can also quote for an introduction to machine-specific PLC software for Simatic programmers on request.

Duration : approx. half a day

Prerequisite: sound knowledge of PLCs

Cold Glue Table Machine

This training course provides participants with a basic knowledge of cold glue labelling. After training, participants will know the important aspects of labelling in order to achieve the best results.

Course: SET 01

Target group:

Maintenance personnel and machine operators with a maintenance role – no previous knowledge required

Content:

- Method of operation of machine
- Operating the machine
- Trouble-shooting
- Changeovers
- Control and adjustment work
- Servicing, maintenance and lubrication
- Quality requirements governing cold glue, labelling and containers

Duration: 4 days

Hotmelt Table Machine – Controll/Controll HS

The aim of this course is to enable participants to work safely with the machine, in order to guarantee high quality labelling and to assure machine productivity levels.

Course: SET 02

Target group:

Maintenance personnel and machine operators with a maintenance role – no previous knowledge required

Content:

- Method of operation of machine
- Operating the machine
- Trouble-shooting
- Changeovers
- Control and adjustment work
- Servicing, maintenance and lubrication
- Quality requirements governing hotmelt, labelling and containers

Duration: 3 days

Modular Machine With Cold Glue and Self-Adhesive Technology APS3

This course looks in detail at modular technology. Participants learn how to work effectively with the machine and to locate and rectify malfunctions accurately.

Course: SET 03

Target group:

Maintenance personnel and machine operators with a maintenance role – no previous knowledge required

Content:

- Method of operation of basic machine and labelling stations
- Operating the machine
- Trouble-shooting
- Changeovers
- Control and adjustment work
- Servicing, maintenance and lubrication
- Change of labelling stations

Duration: 4 days*

* Days 1 and 2: Cold glue station

Day 3: Basic modular machine

Day 4: APS3 self-adhesive labelling station

Labelling Machines – Electrical System (Example)

Participants gain an understanding of the process technology used and the machine's electrical components related to this. This knowledge will enable participants to restore the production capacity of their KRONES machines quickly in the event of a malfunction. Employees learn about the parameterisation of control systems, data security, effective diagnosis and the replacement of specific defective electrical and electronic components. An interactive learning support programme ensures that what has been learned is put into practice.

Course: SET 04

Target group:

Electricians

Prerequisite: previous participation on the »General KRONES Electrical System« course

Content:

- System overview
- Machine functions: touch-screen, broken bottle detection system, height adjustment, infeed control
- Main drive and synchronisation of discharge conveyor
- Construction, parameterisation and setting up of labelling station
- For rotary plate control with servomotors: method of operation, parameterisation, fault diagnosis and rectification, change of motor

For modular labelling stations:

- Method of operation, parameterisation, fault diagnosis and rectification
- Data security using K-Dot software (free of charge with training)

Duration: 1–3 days

(depending on type of machine and modules)

We can also quote for an introduction to machine-specific PLC software for Simatic programmers on request.

Duration: approx. half a day

Prerequisite: sound knowledge of PLCs

Linatronic M2 Basic Course

Participants learn how to operate, set up and parameterise the inspector's mechanical, electronic and electrical systems. After the training, they will know how to carry out inspection of units and rectify malfunctions effectively, as required. This knowledge is required to maintain product quality and increase productivity.

Course: SIT 01

Target group:

Works electricians and electronics engineers

Prerequisite: Basic knowledge of electrical systems

Content:

- Construction and function
- Change of format and parts
- Drive systems

Electronic system:

- Inspection units
- Inspector controller
- Touch-screen

Electrical system:

- Hardware wiring diagram
- BUS systems

Duration: 4 days

Linatronic M2 Advanced Course

This course provides in-depth knowledge of the inspection machine in order to achieve or restore inspection to the highest degree of accuracy. Participants learn how to arrange new types of bottles as well as how to rectify malfunctions in the inspection system quickly and efficiently.

Course: SIT 02

Target group:

Works electricians and electronics engineers

Prerequisite: Participation in the basic course on inspection technology

Content:

- Revision of principles of inspection technology
- Entering new users
- Changing the camera and camera computer
- Setting up a new type of bottle and how to parameterise it
- Setting up the test bottle program
- Carrying out backups and how to use them

Duration: 4 days

Intelligent Troubleshooting

PET-View and Contiform

Varying qualities of preforms, different temperatures in the hall and the interplay of machines lead to the misrouting of finished bottles and downtimes.

In this seminar, you will learn about the interplay between manufacture and monitoring of containers and the set-up work related to this.

Course: SIT 03

Target group:

Mechatronics engineers, electricians, Contiform/PET-View operators

Prerequisite: Participation in Contiform Basic Course

Content:

- Contiform blowing process
- Changing the bottle type and generating new types
- PET-View method of operation
- PET-View parameter-setting
- Tracking
- Fault simulation
- Trouble-shooting
- Rectification of faults

Duration: 3 days

Number of participants: 5 max.

Packing and Palletising Technology

This course familiarises participants with the machine's operating principle, technical process and touch-screen. Afterwards, they will be able to locate and rectify malfunctions without assistance.

Course: SPT 01

Target group:

Maintenance personnel and electricians

Content:

- Method of operation of machine
- Limit switch and PE sensor assembly functions
- Safety features
- Configuration of hardware and software wiring diagrams
- Function and operation of touch-screen
- Trouble-shooting and the rectification of malfunctions
- Service and maintenance
- Product transfer (changeover)
- Documentation and parts orders

Duration: 1-2 days per machine
(depending on type of machine)

Important Information in Brief

Registration

We request that you send your registration directly to the KRONES Academy or to your local subsidiary or agent. You will receive a confirmation of your registration by return. We accept registrations on a first come first served basis.

Times of seminars

Seminars commence on first day 09.00 hrs

On successive days 08.00 hrs

Seminars end approx. 16.00 hrs

Seminar venue

KRONES Academy, Neutraubling, unless otherwise specified in the seminar programme on the following pages.

Prices

Our current prices are indicated in the programme. Course fees include lunch and drinks provided at break times and during the event. Materials used for work and practice exercises are also included.

All prices are to be understood exclusive of the current rate of VAT. Travel and accommodation costs are not included in the course fee. Charges for accommodation are to be settled directly with the hotel. We can arrange for you to be collected from the airport or hotel at extra cost.

Individual courses

As well as our standard range of courses, we are also able to provide seminars tailored specifically to your individual needs.

Number of participants

A minimum of four and a maximum of eight, unless otherwise specified for the course concerned.

Cancellations

Cancellations received in writing no later than two weeks before the start of training are accepted free of charge.

Please note that cancellations made up to two weeks before the start of training are subject to payment of all fees and any hotel costs by the participant.

Instead of cancelling, participants may send a replacement to take their place on the training course without incurring further cost.

The KRONES Academy reserves the right to cancel or postpone any training course, in which case, participants will be informed immediately.

Enquiries

If you have any questions about the courses or about courses which are not listed, please contact the KRONES Academy.

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2008 Seminars

Course	Topic	Language	Date	Price	Training venue
System Technology					
SST 01	General Kronos Electrical System	D/E	on request	*	Neutraubling
SST 02	LDS Line Data Storage System	D/E	on request	*	Neutraubling
SST 03	SIPS Intelligent Plant Maintenance System	D/E	on request	*	Neutraubling
SST 04.1	S7 Basic – Standard Seminar	D	12.02.–15.02.2008	€ 1,200	Neutraubling
SST 04.2		D	15.04.–18.04.2008	€ 1,200	Neutraubling
SST 04.3		D	16.09.–19.09.2008	€ 1,200	Neutraubling
SST 04.4		D	04.11.–07.11.2008	€ 1,200	Neutraubling
SST 05.1	S7 Advanced – Standard Seminar	D	27.05.–30.05.2008	€ 1,200	Neutraubling
SST 05.2		D	21.10.–24.10.2008	€ 1,200	Neutraubling

Plastics Technology					
SKT 01.1	Contiform S Intensive Course for Operators – Standard Seminar	D	13.02.–14.02.2008	€ 950	Neutraubling
SKT 01.2		D	17.09.–18.09.2008	€ 950	Neutraubling
SKT 01.3		E	30.09.–01.10.2008	€ 950	Neutraubling
SKT 02.1	Contiform S Basic – Standard Seminar	D	26.02.–28.02.2008	€ 900	Neutraubling
SKT 02.2		D	06.05.–08.05.2008	€ 900	Neutraubling
SKT 02.3		D	28.10.–30.10.2008	€ 900	Neutraubling
SKT 02.4		E	19.02.–21.02.2008	€ 900	Neutraubling
SKT 02.5		E	07.10.–09.10.2008	€ 900	Neutraubling
SKT 03.1	Contiform S Electrical System – Standard Seminar	D	09.05.2008	€ 300	Neutraubling
SKT 03.2		D	31.10.2008	€ 300	Neutraubling
SKT 03.3		E	10.10.2008	€ 300	Neutraubling
SKT 04.1	Contiform S – Standard Seminar Mechanical Settings/Maintenance	D	17.04.–18.04.2008	€ 950	Neutraubling
SKT 04.2		D	27.11.–28.11.2008	€ 950	Neutraubling
SKT 04.3		E	24.04.–25.04.2008	€ 950	Neutraubling
SKT 05.1	Contiform S Process Technology – Standard Seminar	D	15.04.–16.04.2008	€ 950	Neutraubling
SKT 05.2		D	25.11.–26.11.2008	€ 950	Neutraubling
SKT 05.3		E	22.04.–23.04.2008	€ 950	Neutraubling
SKT 06.1	Contiform S System Technology/Electrical System – Standard Seminar	D	08.04.–11.04.2008	€ 1,900	Neutraubling
SKT 06.2		D	02.12.–05.12.2008	€ 1,900	Neutraubling
SKT 06.3		E	14.10.–17.10.2008	€ 1,900	Neutraubling

Cleaning Technology					
SRT 01.1	Bottle Cleaning Machines – Standard Seminar	D	25.02.–29.02.2008	€ 1,500	Flensburg
SRT 01.2		D	27.10.–31.10.2008	€ 1,500	Flensburg
SRT 01.3		E	22.09.–26.09.2008	€ 1,500	Flensburg
SRT 02	Spiragrip – Standard Seminar	D	17.11.–21.11.2008	€ 1,500	Flensburg

Costs for our standard seminars are quoted per participant.

* The cost of individual, customised courses is € 1,300 per day.

2008 Seminars

Course	Topic	Language	Date	Price	Training venue
Filling Technology					
SFT 01.1	VODM Filler – Standard Seminar	D	08.04.–11.04.2008	€ 1,200	Neutraubling
SFT 01.2		D	23.09.–26.09.2008	€ 1,200	Neutraubling
SFT 02	Mecafill VKP – Standard Seminar	D	04.03.–07.03.2008	€ 1,200	Neutraubling
SFT 03	Filler – Electrical System	D/E	on request	*	Neutraubling
Labelling Technology					
SET 01.1	Cold Glue Table Machine – Standard Seminar	D	12.02.–15.02.2008	€ 1,200	Neutraubling
SET 01.2		D	01.04.–04.04.2008	€ 1,200	Neutraubling
SET 01.3		D	16.09.–19.09.2008	€ 1,200	Neutraubling
SET 01.4		D	18.11.–21.11.2008	€ 1,200	Neutraubling
SET 01.5		E	04.03.–07.03.2008	€ 1,200	Neutraubling
SET 01.6		E	07.10.–10.10.2008	€ 1,200	Neutraubling
SET 02.1	Contiroll Hotmelt Table Machine – Standard Seminar	D	11.03.–13.03.2008	€ 900	Neutraubling
SET 02.2		D	14.10.–16.10.2008	€ 900	Neutraubling
SET 02.3		D	01.04.–03.04.2008	€ 900	Neutraubling
SET 02.4		E	30.09.–02.10.2008	€ 900	Neutraubling
SET 02.5	Contiroll HS Hotmelt Table Machine – Standard Seminar	D	22.04.–24.04.2008	€ 900	Neutraubling
SET 02.6		E	21.10.–23.10.2008	€ 900	Neutraubling
SET 03.1	Modular Machine – Standard Sem. With Cold Glue Technol. and APS ₃	D	15.04.–18.04.2008	€ 1,200	Neutraubling
SET 03.2		D	25.11.–28.11.2008	€ 1,200	Neutraubling
SET 04	Labelling Machines – Electrical System	D/E	on request	*	Neutraubling
Inspection Technology					
SIT 01.1	Linatronic M2 Basic – Standard Seminar	D	19.02.–22.02.2008	€ 1,200	Neutraubling
SIT 01.2		D	22.04.–25.04.2008	€ 1,200	Neutraubling
SIT 01.3		D	14.10.–17.10.2008	€ 1,200	Neutraubling
SIT 01.4		E	11.03.–14.03.2008	€ 1,200	Neutraubling
SIT 01.5		E	09.09.–12.09.2008	€ 1,200	Neutraubling
SIT 02.1	Linatronic M2 Advanced – Standard Seminar	D	08.04.–11.04.2008	€ 1,200	Neutraubling
SIT 02.2		D	02.12.–05.12.2008	€ 1,200	Neutraubling
SIT 02.3		E	04.11.–07.11.2008	€ 1,200	Neutraubling
SIT 03.1	Contiform & PET-View – Standard Seminar	D	05.02.–07.02.2008	€ 1,425	Neutraubling
SIT 03.2		D	23.09.–25.09.2008	€ 1,425	Neutraubling
SIT 03.3		E	21.10.–23.10.2008	€ 1,425	Neutraubling
Packing and Palletising Technology					
SPT 01	Principles of Packing and Palletising Technology	D/E	on request	*	Rosenheim

Costs for our standard seminars are quoted per participant.

* The cost of individual, customised courses is € 1,300 per day.

Technology Alone is Not Enough.

Professionalism and practical experience guarantee a successful learning experience.

- Qualified trainers for each type of machine provide participants with the basic principles and in-depth knowledge.
- An optimum combination of theory and practice provides participants with a broad range of expertise.
- Hands-on instruction and training is delivered in professionally equipped seminar rooms, on demonstration machines at the training centre and at our production sites, or alternatively using the machines on site at the customer's premises.

The advantages for your plant operations

- The understanding participants gain of the technical processes involved ensure the machine is operated efficiently and safely.
- Well-informed operating and maintenance personnel are able to work without errors and at speed for changeovers and when maintaining the machine.
- The heightened awareness demonstrated by well-trained staff prolongs the service life of production equipment and ensures effective trouble-shooting when malfunctions occur.



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