



<b>BINDER GmbH</b>	BINDER is the world's largest specialist in simulation chambers for scientific and industrial laboratories, offering a wide range of products covering routine applications as well as highly-specific work in research and development, production, and quality assurance.
<b>Innovation</b>	Only through constant innovation did BINDER become so successful. Since things should remain this way, we continue to train our partners and customers regularly in special training sessions and seminars.
<b>Information</b>	In our training sessions and seminars, we provide participants with the latest information. Thus you are always up-to-date.
<b>Offerings</b>	Study our training and seminar offerings and find just the right thing for you.
<b>Contact person</b>	BINDER GmbH BIS – BINDER International Services Ms. Meri Mastaoglu Im Mittleren Ösch 5 78532 Tuttlingen Germany  Phone: +49 7462 2005 522 Fax: +49 7462 2005 522 93 522
<b>Registration</b>	Email to <a href="mailto:meri.mastaoglu@binder-world.com">meri.mastaoglu@binder-world.com</a>

## 2 I Trainings and Seminars 2012

### Service training „Modules 1,5,6“

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Target group	Service technicians, technically-interested users from the laboratory/industry	
Prerequisite	basic training, you should have a technical education	
Training duration	3 days 1st day 9:00 AM - 5:00 PM 2nd day 8:30 AM - 5:00 PM 3rd day 8:30 AM - 5:00 PM	
Dates	02/01/2012 – 02/03/2012	German
	02/08/2012 – 02/10/2012	English
	04/16/2012 – 04/18/2012	German
	04/23/2012 – 04/25/2012	English
	09/10/2012 – 09/12/2012	German
	09/17/2012 – 09/19/2012	English
	11/05/2012 – 11/07/2012	German
	11/12/2012 – 11/14/2012	English
Number of Participants	4 to 6 Participants	

### Service training „Modules 2,3,4“

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Target group	Service technicians, technically-interested users from the laboratory	
Prerequisite	basic training, you should have a technical education	
Training duration	3 days 1st day 9:00 AM - 5:00 PM 2nd day 8:30 AM - 5:00 PM 3rd day 8:30 AM - 5:00 PM	
Dates	03/05/2012 – 03/07/2012	German
	03/12/2012 – 03/14/2012	English
	06/04/2012 – 06/06/2012	German
	06/11/2012 – 06/13/2012	English
	10/22/2012 – 10/24/2012	German
	10/29/2012 – 10/31/2012	English
	12/03/2012 – 12/05/2012	German
	12/10/2012 – 12/12/2012	English
Number of Participants	4 to 6 Participants	

### Service training „Modules 1-6“

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Target group	Service technicians, technically-interested users from the laboratory/industry	
Prerequisite	basic training, you should have a technical education	
Training duration	5 days 1st day 9:00 AM - 5:00 PM 2nd day 8:30 AM - 5:00 PM 3rd day 8:30 AM - 5:00 PM 4th day 8:30 AM - 5:00 PM 5th day 8:30 AM - 2:00 PM	
Dates	05/07/2012 – 05/11/2012	German
	06/25/2012 – 06/29/2012	English
	11/19/2012 – 11/23/2012	German
	11/26/2012 – 11/30/2012	English
Number of Participants	4 to 6 Participants	

### Service training basic "Modules 1-6"

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#### **Module 1**

#### **Basics, incubators, and laboratory chambers**

Seminar content

- Overview of the devices for the scientific laboratory  
Chamber types: BD, ED, FD, BF, FED, FP, VD, VDL, FDL, MDL, M
- Basics of electrotechnology
- Basics of controller technology
- Operation of the chambers
- System description
- The APT™ technology
- Function of the R3, R3.1, RD3 and MB1 controller
- Calibration and adjustment of the R3, R3.1, RD3 and MB1 controller
- Error diagnosis and troubleshooting
- Replacement of defective components
- Maintenance plans
- Operation of dealer software

Training goal

This basic training will give you an overview of the chambers offered by BINDER and the technologies used. Electrotechnical and controller-technological basics will be taught. In particular, details will be provided about incubators and the classic laboratory chambers. The participants will learn how to repair and maintain these chambers.

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#### **Module 2**

#### **CO2 incubators**

Seminar content

- Functional characteristics of the chamber types C, CB
- Operation of the chambers
- The Permadyr™ system
- CO2 and O2 measurement and control
- Hot-air sterilization
- Function of the MB1 and RP1 controllers
- Calibration and adjustment of the MB1 and RP1 controllers
- Error diagnosis and troubleshooting
- Replacement of defective components
- Maintenance plans
- Operation of dealer software

Training goal

This training imparts special technical knowledge about CO2 incubators of the type CB. The participants will learn to repair and maintain these chambers.

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#### **Module 3**

#### **Constant climate and plant growth chambers**

Seminar content

- Functional characteristics of the chamber types KB, KBF, KBW, KBWF, KMF
- Operation of the chambers with RD3 and MB1 controller
- The DCT™ technology
- The humidification system
- ICH and growth lighting
- Calibration and adjustment of the temperature/humidity with MB1 controllers
- Error diagnosis and troubleshooting
- Replacement of defective components
- Maintenance plans
- Operation of dealer software

Training goal

This training imparts specific technical knowledge about plant growth and constant climate chambers. The participants will learn to repair and maintain these chambers.

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## 4 | Trainings and Seminars 2012

### **Module 4**

### **BINDER ULTRA.GUARD™ Ultra low temperature freezer**

Seminar content	<ul style="list-style-type: none"><li>- Functional characteristics of the chamber types UF V</li><li>- Operation of the chambers with RP1 controller</li><li>- Programming of the RP1 controller</li><li>- The cooling system</li><li>- RFID</li><li>- Calibration and adjustment with RP1 controller and Logger</li><li>- Error diagnosis and troubleshooting</li><li>- Replacement of defective components</li><li>- Maintenance plans</li></ul>
Training goal	This training imparts specific technical knowledge about the BINDER ULTRA.GUARD™ Ultra low temperature freezer. The participants will learn to repair and maintain these chambers.

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### **Module 5**

### **Industry**

Seminar content	<ul style="list-style-type: none"><li>- Functional characteristics of the chamber types MKF, MKT, MKFT, KMF</li><li>- Operation of the chambers with MB1 controller</li><li>- Programming of the MB1 controller</li><li>- The heating system</li><li>- The cooling system</li><li>- The pure water humidification system</li><li>- Calibration and adjustment with MB1 controllers</li><li>- Operation of dealer software</li><li>- Error diagnosis and troubleshooting</li><li>- Replacement of defective components</li><li>- Maintenance plans</li></ul>
Training goal	This training imparts special technical knowledge about the chamber types MKF, MKT, MKFT, KMF. The participants will learn how to repair and maintain these chambers.

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### **Module 6**

### **APT-COM™**

Seminar content	<ul style="list-style-type: none"><li>- Overview of the BINDER controller types</li><li>- Overview of the interface types</li><li>- Addressing of RS 422</li><li>- RS 232 and RS 422 networks</li><li>- Ethernet networking</li><li>- Hardware requirements</li><li>- Set-up and registration</li><li>- Update and back-up</li><li>- Configuration of the software</li><li>- User manager</li><li>- Monitoring and alarms</li><li>- Error diagnosis and troubleshooting</li></ul>
Training goal	This training imparts special technical knowledge about the installation and start-up of the APT-COM™ hardware and software. The participants will learn how to install and operate the software.

### Customer seminar APT-COM™ "Module 7"

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Target group	Laboratory directors, laboratory employees, users, customer technicians
Prerequisite	BINDER customer, Windows knowledge
Training duration	2 days 1st day 9:00 AM - 5:00 PM 2nd day 8:30 AM - 5:00 PM
Dates	<b>on request</b>
Number of participants	<b>on request</b>

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#### **Module 7**

#### **Customer seminar APT-COM™ GLP**

Seminar content	<ul style="list-style-type: none"><li>- APT-COM™ properties</li><li>- Start, login, lock</li><li>- Carry out measurements</li><li>- Remote control</li><li>- Automatic documentation</li><li>- Manual documentation</li><li>- Notes about measurement</li><li>- Manual/automatic back-up</li><li>- Database optimization</li><li>- Archiving</li><li>- Overview of the BINDER controller types</li><li>- Overview of the interface types</li><li>- Addressing of RS 422</li><li>- RS 232 and RS 422 networks</li><li>- Ethernet networking</li><li>- Hardware requirements</li></ul>
Training goal	This seminar imparts knowledge about using the APT-COM™ software. The participants will learn how to use the software.

### Customer seminar technology "Module 8"

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Target group	Laboratory directors, laboratory employees, users, customer technicians
Prerequisite	BINDER customer
Training duration	2 days 1st day 9:00 AM - 5:00 PM 2nd day 8:30 AM - 5:00 PM
Dates	<b>on request</b>
Number of participants	<b>on request</b>

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#### **Module 8**                      **Customer seminar technology**

Seminar content	<ul style="list-style-type: none"><li>- General overview of BINDER chambers</li><li>- Which device for which application</li><li>- What's new</li><li>- FAQs about operation</li><li>- Safety equipment on BINDER chambers</li><li>- Technical properties of BINDER cabinets</li><li>- Alarm messages of the various controller types</li><li>- Fault localization by the user/technician</li></ul>
Training goal	This seminar imparts knowledge about the application and the possibilities for using BINDER chambers. The participants will learn how to use the BINDER chambers optimally and localize errors that occur.

## 7 | Trainings and Seminars 2012

### Seminar services

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Times	Our training sessions and seminars begin at 8:30 AM, on the day of arrival at 9:00 AM, and they end at approximately 5:00 PM.
Execution	The training sessions and seminars take place in our offices. In our research and development center, we have very modern training rooms. We reserve the right to cancel or postpone a training session at the latest 2 weeks before it is scheduled to begin if there are fewer than 4 Participants registered. In case of a cancellation, the registration fees will be refunded in full.
In-house seminar	For training sessions on customers' premises, we charge a daily flat fee of 1.000,00 € plus travel fees.
Content	In order to do justice to quality concerns, the training content can be adapted individually for the group.
Certificate	each participant will receive a personal certificate for successful Participation.
Fees	350,00 € plus VAT for one Modul (1 day) 450,00 € plus VAT for two Moduls (2 days) 550,00 € plus VAT for three Moduls (3 days) 750,00 € plus VAT for Modul 1-6 (5 days) The training fee is including coffee breaks, lunch, and the training documents. The training fee must be paid upon receipt of the invoice and before Start of the training.
Registration	Written registration is required for all training sessions and seminars. Registrations will be considered in the order in which they are received. Registrations must be received 3 weeks before the beginning of the training session. After successful registration and payment of the registration fees, the participant will receive a written confirmation.
Withdrawal	Withdrawal from a booked seminar is possible up to 2 weeks before the seminar is scheduled to begin with refund of the registration fees.

### Important

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<b>Notebook</b>	<b>It is necessary to bring your own laptop with admin-rights to all training courses/ seminars.</b>
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## 8 I Trainings and Seminars 2012

### Registration for the BINDER Service Training /Seminar

Please fill out only one form per training session/seminar.

Airfare, accommodations, and other expenses will be paid by me/my employer.

If I cannot participate in the training session/seminar, I will inform BINDER of this at least two weeks before the training session/seminar is scheduled to begin.

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Training session / seminar

Module number

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Date

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Last name

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First name

---

Date of birth

---

Language(s)

German

English

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Profession

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Company address

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Telephone / Fax / E-mail

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I have already booked my hotel

Yes

No

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I need a hotel reservation

Yes

From:

To:

Smoker

Non-smoker

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Invoice address for the registration fee

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Please send this form to Ms. Meri Mastaoglu

Email: [meri.mastaoglu@binder-world.com](mailto:meri.mastaoglu@binder-world.com)

Fax: +49 7462 2005 93 522

