



- BINDER GmbH** 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.
- Innovation** Only through constant innovation did BINDER become so successful. Since things should remain this way, we continue to train our partners regularly in special training sessions and seminars.
- Information** In our training sessions and seminars, we provide participants with the latest information.  
Thus you are always up-to-date.
- Offerings** Study our training and seminar offerings and find just the right thing for you.
- Contact person** BINDER GmbH  
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Tel.: +49 (0) 7462 / 2005 – 555  
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- Registration** E-mail to: [service@binder-world.com](mailto:service@binder-world.com)

## 2 Trainings and seminars 2009

### Service training basic "Modules 1-5"

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Target group	Service technicians, technically-interested users from the laboratory
Prerequisite	This is the basic training, you should have a technical education.
Training duration	1st day 9:00 AM - 5:00 PM 2nd day 8:30 AM - 5:00 PM
5 days	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	1/26/2009 - 1/30/2009 - German 2/9/2009 - 2/13/2009 - English 6/15/2009 - 6/19/2009 - English 6/29/2009 - 7/3/2009 - German 10/5/2009 - 10/9/2009 - English 10/19/2009 - 10/23/2009 - German
	5 to 8 participants

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#### **Module 1**                      **Basics, incubators, and classic laboratory chambers**

Seminar content	-Overview of the devices for the scientific laboratory Chamber types: BD, ED, FD, BF, FED, FP, VD, VDL, KB - Basics of electrotechnology - Basics of controller technology - Operation of the chambers - System description - The APT™ technology - Function of the R3, R3.1, and RD3 controller - Calibration and adjustment of the R3, R3.1, and RD3 controller - Operation of dealer software - Error diagnosis and troubleshooting - Replacement of defective components - Maintenance plans
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 Permady™ 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 - Operation of dealer software - Error diagnosis and troubleshooting - Replacement of defective components - Maintenance plans
Training goal	This training module imparts special technical knowledge about CO2 incubators of the type CB. The participants will learn to repair and maintain these chambers.

### Service training basic "Modules 1-5"

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#### **Module 3**

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

Seminar content	<ul style="list-style-type: none"><li>-Functional characteristics of the chamber types KBF, KBW, KBWF</li><li>- Operation of the chambers with MB1 controller</li><li>- The DCT™ technology</li><li>- The humidification system</li><li>- ICH and growth lighting</li><li>- Calibration and adjustment of the temperature/humidity 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 module 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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#### **Module 4**

#### **Safety, temperature test, and environmental simulation chambers**

Seminar content	<ul style="list-style-type: none"><li>-Functional characteristics of the chamber types FDL, MDL, M, MK</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>- 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 module imparts specific technical knowledge about the environmental simulation chambers and temperature test chambers. The participants will learn to repair and maintain these chambers.

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#### **Module 5**

#### **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 seminar 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.

## 4 Trainings and seminars 2009

### Service training industry "Module 6"

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Target group	Service technicians, technically-interested users from the laboratory with appropriate prior knowledge
Prerequisite	This training module builds on the <b>Service training basic "Modules 1-5"</b> . Prior knowledge of BINDER chambers is necessary.
Training duration 2 days	1st day 9:00 AM - 5:00 PM 2nd day 8:30 AM - 5:00 PM
Dates	2/3/2009 - 2/4/2009 - German 2/16/2009 - 2/17/2009 - English 6/22/2009 - 6/23/2009 - English 7/6/2009 - 7/7/2009 - German 10/12/2009 - 10/13/2009 - English 10/26/2009 - 10/27/2009 - German
5 to 8 participants	

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#### **Module 6**

#### **Industry**

Seminar content	<ul style="list-style-type: none"><li>- Functional characteristics of the chamber types MKF, MKT</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 module imparts special technical knowledge about the chamber types MKF, MKT. The participants will learn how to repair and maintain these chambers.

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### Service training expert seminar "Module 7"

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Target group	Service partners, service technicians, technically-interested users from the laboratory with appropriate prior knowledge
Prerequisite	This training module builds on the <b>Service training basic "Modules 1-5"</b> . Prior knowledge of BINDER chambers is necessary.
Training duration 2 days	1st day 9:00 AM - 5:00 PM 2nd day 8:30 AM - 5:00 PM
Dates	3/18/2009 - 3/19/2009 - German 3/23/2009 - 3/24/2009 - English 10/14/2009 - 10/15/2009 - English 10/28/2009 - 10/29/2009 - German
3 to 6 participants	

## 5 Trainings and seminars 2009

### Service training expert seminar "Module 7"

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#### Module 7

#### Expert seminar

Seminar content	<ul style="list-style-type: none"><li>- Testing of the product-specific prior knowledge of BINDER chambers</li><li>- New chamber types</li><li>- New technical functions</li><li>- New modifications</li><li>- Service for C and CB chambers</li><li>- Service for KBF and KBWF chambers</li><li>- Service for MKF(T) chambers</li><li>- Operation of dealer software</li><li>- Error diagnosis and troubleshooting in theory and practice</li><li>- Validation, content and execution</li></ul>
Training goal	This seminar serves to provide updated technical information with respect to BINDER chambers. Chambers from the area of "industry" are treated in more depth. The participants will consolidate and deepen their technical expertise with BINDER chambers.

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### Authorization of BINDER service partners "Module 8"

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Target group	Service partners
Prerequisite	Participation in the expert seminar
Training duration 2 days	1st day 10:00 AM - 5:00 PM 2nd day 8:30 AM - 4:00 PM
Dates	3/16/2009 - 3/17/2009

#### Participation only by invitation

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#### Module 8

#### Service partners

Seminar content	<ul style="list-style-type: none"><li>- New chamber types</li><li>- New technical functions</li><li>- New modifications</li><li>- The BINDER SLA</li><li>- Quality management in technical service</li><li>- Characteristics in technical service, recording, and assessment</li><li>- Validation, content and execution</li></ul>
Training goal	This seminar service to provide updated technical information with respect to BINDER chambers and to agree on the so-called <b>Service Level Agreement (SLA)</b> . The participants will become "authorized technical partners" or renew their certificate.

## 6 Trainings and seminars 2009

### Customer seminar technology "Module 9"

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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>
5 to 8 participants	

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#### **Module 9**                      **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.

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### Customer seminar APT-COM™ "Module 10"

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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>
5 to 8 participants	

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#### **Module 10**                      **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></ul>
Training goal	This seminar imparts knowledge about using the APT-COM™ software. The participants will learn how to use the software.

## 7 Trainings and seminars 2009

### Overview of dates

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<b>January</b>	1/26/2009 - 1/30/2009	training modules 1-5 - German
<b>February</b>	2/3/2009 - 2/4/2009 2/9/2009 - 2/13/2009 2/16/1009 - 2/17/2009	training module 6 - German training modules 1-5 - English training module 6 - English
<b>March</b>	3/16/2009 - 3/17/2009 3/18/2009 - 3/19/2009 3/23/2009 - 3/24/2009	Authorization training module 7 - German training module 7 - English
<b>June</b>	6/15/2009 - 6/19/2009 6/22/2009 - 6/23/2009 6/29/2009 - 7/3/2009	training module 1-5 - English training module 6 - English training module 1-5 - German
<b>July</b>	7/6/2009 - 7/7/2009	training module 6 - German
<b>October</b>	10/5/2009 - 10/9/2009 10/12/2009 - 10/13/2009 10/14/2009 - 10/15/2009 10/19/2009 - 10/23/2009 10/26/2009 - 10/27/2009 10/28/2009 - 10/29/2009	training module 1-5 - English training module 6 - English training module 7 - English training module 1-5 - German training module 6 - German training module 7 - German

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### 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 5 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 1000 € 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	300 € plus VAT, one time per registration/course, including coffee breaks, lunch, and training documents. The registration fee must be paid upon receipt of the invoice.
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.

## 8 Trainings and seminars 2009

### Registration for the BINDER Service training session/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

Date:

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Last name

:

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First name

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Date of birth

Date:

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Language(s)

German  English  French  Spanish

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Profession

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Employed by

:

Address of the company

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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: [service@binder-world.com](mailto:service@binder-world.com)

BINDER GmbH: Hotline: +49 (0)7462 / 2005 – 555 Fax: +49 (0)7462 / 2005 – 93555

