KEB

SEMINARS 2026

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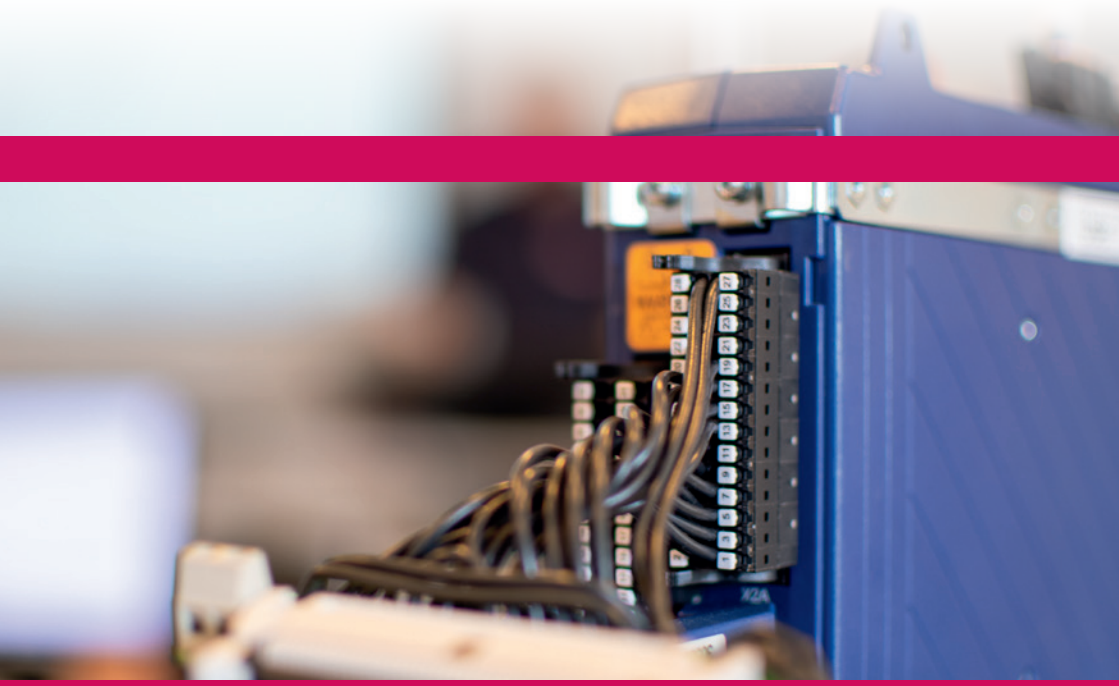

CONTENT **SEMINARS 2026** IN BARNTRUP OR HEILBRONN, OR ONLINE

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PREAMBLE

During the past few years the electronical drive technology experienced an uneven triumphal procession in the areas of industrial automation.

Here it can be noticed, that aside from pure drive tasks due to efficiency reasons more and more control and supervision functions are shifted to the drive controller.

Relatively short product cycles with more compact and more efficient units demand also a permanent continued education of the personnel involved in the projectioning and start-up. Only the combination of application orientated knowledge in connection with the safe handling allows a cost optimized usage of electronically controlled drives in modern machines.

KEB as one of the leading mid-size manufacturers of mechanical and electronical drive components noticed in due time, that aside from high quality technical products a competent councelling and support of the user is necessary. Based on this knowledge user orientated trainings are a fixed part of the range of KEB services.

Target group of these training sessions are interested first time users who wish to obtain solid basic knowledge as well as advanced users who wish to recall their knowledge. According to the principle "Learning by doing" practical exercises with the units are a fixed part of the training.

The seminars described in this booklet are face-to-face events at our KEB HQ in Barntrup or KEB-Süd in Heilbronn. KEB Automation also offers online training.

We would appreciate if you can spare some time and participate in one of our various trainings. You will surely profit from this investment in a short time.

More information and the training dates
you can find here: https://www.keb-automation.com/news-events/training

„THREE-PHASE DRIVES WITH COMBIVERT F6/S6 DRIVE CONTROLLERS AND COMBIVIS 6“

- Basics of three-phase motors
- Basics of frequency inverters
- U/F controlled drives
- Setting up communication with COMBIVIS 6
- Programme structure
- Operation and configuration of devices
- Data backup / data transfer
- Troubleshooting COMBIVIS 6
- Practical exercises

Time: 9:00 a.m. to 5:00 p.m. (1 day)

Number of Participants: max. 12

Fees per person: 375 euros + VAT, including seminar materials, lunch and beverages

Objective: Participants will gain an insight into how COMBIVERT F6/S6 frequency inverters work and learn about the general conditions. They will also gain knowledge of the function and operation of the COMBIVIS 6 device parameterisation software.

Practising on functional models will provide the necessary confidence in handling the devices.

Prerequisites:

- Basic knowledge of electrical engineering
- Basic PC skills
- Laptop with the latest version of COMBIVIS6 installed (except at the seminar location in Barntrup)

"SINGLE AXIS DRIVE COMBIVERT F6/S6 COMMISSIONING"

- Hardware and connection
- Control card types
- Commissioning assistants
- Range of functions
- Commissioning of controlled drives
- Overview of operating modes in accordance with CiA 402
- Analysis options with KEB Scope
- Fault diagnosis
- Practical exercises

Time: 9:00 a.m. to 5:00 p.m. (1 day)

Number of Participants: max. 12

Fees per person: 375 euros + VAT, including seminar materials, lunch and beverages

Objective: Participants will learn how to commission and parameterise the COMBIVERT F6/S6 series through practical exercises and examples. They will gain an overview of the functionality of the devices and will be able to adapt them to the respective application.

Practical exercises on functional models provide the necessary confidence in using the COMBIVIS 6 software.

Prerequisites:

- Basic PC skills
- Basic knowledge of electrical drive technology
- Basic knowledge of COMBIVIS 6
- Laptop with the latest version of COMBIVIS6 installed (except at the seminar location in Barntrup)

"SINGLE AXIS DRIVE COMBIVERT F6/S6"

- Operating modes according to CiA402 (IEC 61800-7-200)- Homing Mode
  - o Velocity mode
  - o Homing mode
  - o Profile position mode
  - o Cyclic synchronous velocity mode
  - o Cyclic synchronous position mode
- COMBIVIS 6 commissioning wizard
- Recipes
- Fault diagnosis
- Practical exercises

Time: 9:00 a.m. to 5:00 p.m. (1 day)

Number of Participants: max. 12

Fees per person: 375 euros + VAT, including seminar materials, lunch and beverages

Objective: By the means of practical exercises and examples the participants learn the start-up and parameterization of the servo series COMBIVERT F6/S6.
They obtain a general view of the functionality of the units and are able to adjust these to respective application.

Prerequisites:
- Participation in course 2A
- Laptop with the latest version of COMBIVIS6 installed (except at the seminar location in Barntrup)

„SAFETY MODULES FOR COMBIVERT F6 AND S6““

- Range of functions of the devices
- Safety functions according to EN 61800-5-2
- Safety Editor in COMBIVIS 6
- Fault diagnosis
- Practical exercises

Time:	9:00 a.m. to 5:00 p.m. (1 day)
Number of Participants:	max. 10
Fees per person:	375 euros + VAT, including seminar materials, lunch and beverages
Objective:	Participants learn how to commission and parameterise the safety modules of the COMBIVERT F6/S6 series through practical exercises and examples. They gain an overview of the functionality of the devices and are able to adapt them to the respective application. Practical exercises on functional models provide the necessary confidence in handling the devices.
Prerequisites:	■ Knowledge of COMBIVERT F6/S6 and the COMBIVIS 6 parameterisation software (course 1 and/or 2A) ■ Laptop with the latest version of COMBIVIS6 installed (except at the seminar location in Barntrup)

"COMBIVERT G6 AND COMBIVIS 6"

- Basics frequency inverters
- Connection and taking units into operation
- Operation surfaces
- PC-operation surface COMBIVIS 6
- Function extent of the units
- Operating mode u/f and sensorless control (ASCL/SCL)
- Error diagnosis
- Accessories
- Practical exercises

Time: 9:00 a.m. to 5:00 p.m. (2 days)

Number of Participants: max. 12

Fees per person: 750 euros + VAT, including seminar materials, lunch and beverages

Objective: The participants get an overview of the functionality of a frequency inverter and its general conditions. By the means of pratical exercises and examples the participants learn the projectioning, start-up and parameterisation of the series COMBIVERT G6. They obtain a general view of the functionality of the units and are able to adjust these to respective application.

Prerequisites:

- Basic electronical
- PC knowledge
- Laptop with the latest version of COMBIVIS6 installed (except at the seminar location in Barntrup)

Applying theoretical knowledge in practice: at our on-site seminars at the KEB HQ in Barntrup or at our location in Heilbronn, participants experience the exciting facets of innovative drive technology up close.

OFFER OF SEMINARS **CONTROL ENGINEERING**

COMBIVIS studio 6	**COMBICONTROL C6 BASIC** Introduction into programing with COMBIVIS studio 6 Function of the C6 system components	(2 days)
	COMBICONTROL C6 PRO The easy way of programing single- and multiaxis motion with KEB Softmotion libraries	(1 day)
	COMBICONTROL C6 ADVANCED The easy way of programing single- and multiaxis motion with KEB CNC libraries	(1 day)
COMBICONTROL Safety	Introduction into programing with safety Function of the C6 safe PLC	(1,5 days)
C6 indicidual	Indicidual topics, adapted to your application! Please contact our support team for advise. Email: **combicontrol@keb.de**	

COMBICONTROL C6 BASIC "COMBIVIS studio 6 / COMBICONTROL C6"

- Overview COMBICONTROL C6 automation system
  - IPC-based control
  - Embedded control
  - Systembus EtherCAT C6
  - IO-modules
  - Automation platform COMBIVIS studio 6
- Attachment and device setup
- Introduction in programming with COMBIVIS studio 6
  - Object orientated project organization (Applications layout / terms / objects)
  - Overview: Programing according to standard IEC 61131-3 (ST, FBD, SFC, CFC,LD, IL)
  - Declare / Compile / Login / Download / Debug / Monitor / Trace
  - Bus configuration (EtherCAT), drive attachment F6, H6, S6
  - Further interfaces on request
- Exercises and sample projects

Time: 9:00 a.m. to 5:00 p.m. (2 days)

Number of Participants: min. 4

Fees per person: 750 euros + VAT, including seminar materials, lunch and beverages

Objective: By the means of practical exercises and examples the participants learn how to hand the automation platform COMBIVIS studio 6 and the start-up and programing of the COMBICONTROL C6 system components.

You get a general overview about the features and you are able to use and customize them to the respective application.

Prerequisites:

- COMBIVIS studio 6 workstation licence
- Own laptop recommended (pre-installed COMBIVIS studio 6)
  PC workstations on side are available on request.
- Basic programming knowledge
- KEB Inverter: Basic Parameterization knowledge (COMBIVIS 6)

COMBICONTROL C6 PRO "COMBIVIS studio 6 SOFTMOTION"

- Basics of CONTROL PRO
  (drive configuration, basics, PLCopen, KEB_SMC_UTILITY)
- Single axis movement (Velocity mode, abs./rel. positioning)
- Master/Slave-modes (phasing, caming, gearing)
- Virtual drive, virtual master
- External encoder
- Exercises and sample projects

Time: 9:00 a.m. to 5:00 p.m. (1 day)

Number of Participants: min. 4

Fees per person: 375 euros + VAT, including seminar materials, lunch and beverages

Objective: By the means of practical exercises and examples the participants learn the easy way of programing motion profiles using the CONTROL PRO driver and libraries.
You get a general overview about the features and you are able to use and customize them to the respective application.

Prerequisites:

- COMBIVIS studio 6 workstation licence
- Own laptop recommended (pre-installed COMBIVIS studio 6)
  PC workstations on side are available on request.
- Basic programming knowledge
- KEB Inverter: Basic Parameterization knowledge (COMBIVIS 5 / 6)

THE COURSE IS BASED ON THE "COMBICONTROL C6 BASIC" TRAINING.

COMBICONTROL C6 ADVANCED "COMBIVIS studio 6 CNC"

- Basics of CONTROL PRO (Short repetition)
- Basics of CNC
- G-Code / Editor / Import
- Cinematics (Gantry; Portal, Scara, Tripod)
- Exercises and sample projects

Time:	9:00 a.m. to 5:00 p.m. (1 day)
Number of Participants:	min. 4
Fees per person:	375 euros + VAT, including seminar materials, lunch and beverages
Objective:	By the means of practical exercises and examples the participants learn the easy way of programing motion profiles using the KEB CNC driver and libraries. You get a general overview about the features and you are able to use and customize them to the respective application.
Prerequisites:	■ COMBIVIS studio 6 workstation licence ■ Own laptop recommended (pre-installed COMBIVIS studio 6) PC workstations on side are available on request. ■ Basic programming knowledge ■ KEB Inverter: Basic Parameterization knowledge (COMBIVIS 6) **THE COURSE IS BASED ON THE "COMBICONTROL C6 PRO" TRAINING.**

COMBICONTROL "SAFE PLC, SAFE I/O "

- Functionality of the devices
- COMBIVIS studio 6 safety
  - PLCopen safety function blocks
  - Communication with a COMBIVERT F6/S6 by FSoE
  - Automatically download of safe parameter lists
- Fault diagnosis
- Practical exercises

Time: 1:00 p.m. to 5:00 p.m. / 9:00 a.m. to 4:00 p.m. (1,5 days)

Number of Participants: min. 4

Fees per person: 550 euros + VAT, including seminar materials, lunch and beverages

Objective: On the basis of practical exercises and examples, the participants will learn how to commission and parameterize the KEB Safe PLC. They get an overview of the functionality of the devices and are able to adapt them to the respective application.

Prerequisites:

- COMBIVIS studio 6 workstation license
- Own laptop recommended (pre-installed KEB COMBIVIS studio 6)
  PC workstations on side are available on request.
- Basic programming knowledge
  Safety functions regarding EN 61800-5-2
- Basic safety functionality regarding ISO 13849 and IEC 62016

TERMS AND CONDITIONS OF THE TRAINING AND INSTRUCTI

KEB reserves itself the right to call seminars of 7 calender days before beginning because of not reached number of participants.

- **Registration**
  - by mail, fax or via www.keb-automation.com/news-events/training

- **Notice of Cancellation**
  - In the event of cancellations less than 7 calendar days before the start of the seminar, the seminar price cannot be not be refunded. The cancellation must be made in written form.

- **Fees**
  - The fee is listed in the various training descriptions. The fee is due for payment upon receipt of the invoice right after your announcement.

- **Documentation**
  - For all training sessions you will receive the necessary documentation during the training.

- **Copy right**
  - KEB has the copy right for all passed out documentation and these are not allowed to be reproduced not even partially without the written permission of KEB.

- **Certificate of participation**
  - After finalization of the training each person will receive a certificate of participation.

- **Hotel reservations**
  - Please find attached a listing of all hotel in the surrounding area. Please select yourself!

- **Contact** Phone: +49 5263 4010 Email: info@keb.de

- **Instructor**

Course 1 - 4	Mr. Kevin Lange	email: **schulung@keb.de**
Course 5 - 8	COMBICONTROL Team	email: **combicontrol@keb.de**

- **Current seminar dates**
  Please have a look… www.keb-automation.com/news-events/training

- **Location**
  If nothing else is agreed, the seminars take place in
  32683 Barntrup, Suedstrasse 38, Germany
  74074 Heilbronn, Ferdinand-Braun Str. 14/1, Germany

- **Reservation of Rights**
  - We reserve the right in case of sickness of the instructor or of low participation to cancel the training even after acknowledged participation. The claim of reimbursement or loss is excluded.
  - We reserve the right to adjust the topics to the current state of technology, due to which difference to the description may occur.

- **Exclusion of Liability**
  - During the training and in the training documentation we are delivering information to the best of our knowledge. We are not liable for possible errors in the technical information, which are delivered verbally or in writing during the training or in the documentation. Further we are not liable for possible damages resulting hereform and consequential loss. This exclusion of liability is not valid, if we can be held liable in cases of intension and grossly negligent.

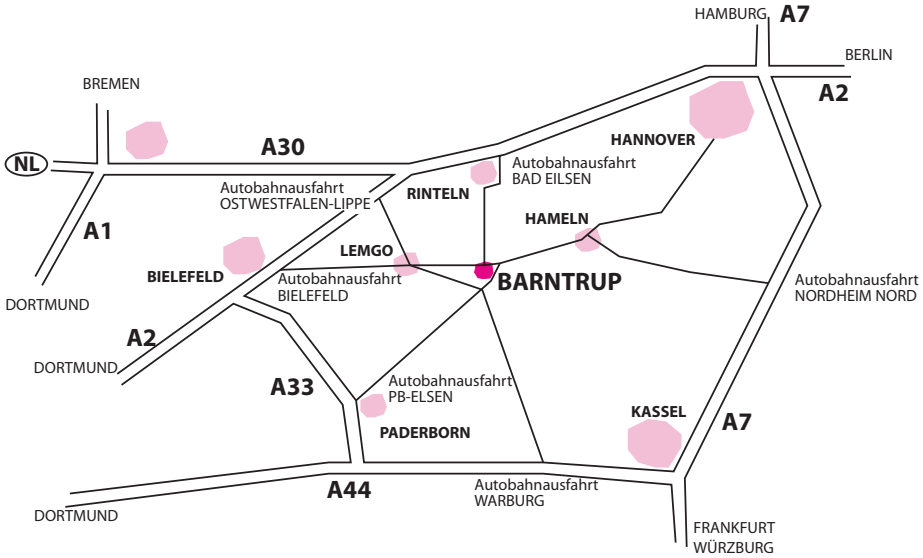
- **Customer specific training**
  Trainings in english language on request.
  If require we also arrange training sessions in accordance to your needs. To ensure a problem free organization of the training, please discuss the following points with us at an early stage:

  - Place of training
  - Number of participants
  - Topics
  - Time frame of the training
  - Knowledge of the participants

The fee for special training at KEB is EURO 1.300 per day + VAT. For training sessions at your company the charge for arrival, departure and accommodation of the instructor have to be added.

The availability of a suitable room with screen and blackboard is preassumed. Further for practical exercises one PC/notebook for each two participants should be available.

SKETCH WAY AND HOTELS / BARNTRUP



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