

# **Training-Program by WALDRICH COBURG**

# Training-Program

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Careful and comprehensive training of your employees is the basis for using your machine in the most economical way. In our trainings, we convey the knowledge and skills for a smooth production process and qualified handling of your machine. This includes professional operation, correct maintenance and careful care of the machine.

Our trainings make an important contribution to stabilizing your production process, documenting employee know-how and optimizing the availability of your WALDRICH COBURG machine.

We offer your employees a comprehensive training program for further training. In addition, you will receive individual trainings from us that are tailored to your requirements and the previous knowledge of the participants.

We would be happy to advise you on your selection of trainings.

Profit from our expertise!

You want qualified employees and a significantly reduced training period on the machine.

Knowledge and know-how do not only form the basis, but also enable the new WALDRICH COBURG machine to be integrated into your production process in the shortest possible time.

Experienced employees of WALDRICH COBURG will impart this know-how to you.

Our trainings do not only offer you a great economic potential, but also make the complex work on the machine much safer.

## Advantages

- + Well-trained employees
- + Safe working method

- Shorter start-up phases
- Increased machine availability
- Reduced downtimes
- Solid manufacturing processes
- Avoidance of operating errors

# Overview of our offers

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The overview of our offers gives you an insight into the various WALDRICH COBURG training-program. Put together a training package based on your needs or select individual trainings. We would be happy to advise you on your selection of trainings or if you have any further questions.

## Selection of possible trainings

### Interactive production support (InPro)

Entry into the digital product world of WALDRICH COBURG: Imparting the structure and functions to the production management and the service and maintenance employees.

### Basic operator training

Imparting the basic knowledge for the operation of a WALDRICH COBURG machine

### Service and maintenance seminar mechanic – basic machine and periphery

Imparting of mechanical basics for service and maintenance employees

### Service and maintenance seminar electric – basic machine and periphery

Imparting of electrical basics for service and maintenance employees

### Programmer training

Independent creation of machining programs is taught

### Production support

Support of the machine operators / programmers to the start of production

Below you will find a detailed overview of: target group, requirements for participants, number of participants and training content.

# Interactive production support

InPro – We will give you an insight into the digital product world of WALDRICH COBURG. The training is designed for production management as well as service and maintenance employees. It provides an insight into the structure and functions of InPro.

This involves the imparting of the knowledge on how to record the machine condition (machine availability / monitoring, utilization and factory calendar) and how to document the know-how of the employees. Furthermore, the tools for preventive maintenance and quick troubleshooting & localization are shown.

**Target group:**

- Service and maintenance employees production management

**Requirements:**

- Interactive production support (InPro) available
- WALDRICH COBURG basic seminar – operation
- Remote access

**Seminar goals:**

- Troubleshooting and localization independently carry out
- Machine condition monitoring and plans
- Plan and carry out preventive maintenance
- Individualized machine use by InPro

**Seminar location:**

- Online via remote

**Timeframe:**

- 2 hours

**Seminar content:**

- Basics of InPro: Entry into the digital product world at WALDRICH COBURG
- Basic knowledge of handling and function in general (language selection, dialing, etc.)
- InPro basis: documentation and tablet camera
- InPro diagnosis: troubleshooting and error localization
- InPro maintenance: Display and management of the WALDRICH COBURG maintenance instructions, individualized maintenance instructions, notebook / individual comments
- InPro machine condition: machine availability, factory calendar planning, machine signals and data recording

# Basic training – Operator

For a safe and well-trained handling as well as the avoidance of operating errors on the WALDRICH COBURG machine, a detailed training is offered beyond the standard introduction. With this training your employees will be given the necessary know-how for a smooth production start.

**Target group:**

- Operating employees

**Number of participants:**

- Maximum 6 persons

**Requirement:**

- Commissioning and installation is complete
- Machining mechanic or comparable qualification

**Seminar goals:**

- Basic knowledge of operating a WALDRICH COBURG machine

**Seminar location:**

- Presence

**Time frame:**

- 4 days

**Seminar content:**

- Security technology
- Overview of machine structure
- Overview of machine functions
- Basic knowledge of machine operation (switching on / off)
- Operation – operating modes
- Operation – Move axes
- Pivoting and compensating the spindle units
- Spindle unit change (automatic)
- Machine malfunctions in the automation process
- WALDRICH COBURG – Menu
- Emergency control function
- Emergency free driving device
- Tool management and their application\*
- Automation functions – BAE change
- Automation functions – Tool change
- Automation functions – Manual tool change
- Handling and functionality of interactive production support (InPro/INDIS)\*
- Preventive maintenance\*
- Machine data acquisition / production data acquisition (MDE / BDE)\*
- Working areas, zero offset

\* if available

If required, an additional day can be booked for a fee for more extensive questions.

# Service and maintenance seminar – mechanic

## Basic training – basic machine & machine periphery

Comprehensively trained service and maintenance employees can make a significant contribution to higher machine availability and shorter downtimes. We provide your employees with the necessary specific mechanical knowledge for the WALDRICH COBURG machine.

### Basic machine

**Target group:**

- Mechanic service and maintenance employees

**Number of participants:**

- Maximum 6 persons

**Requirement:**

- Commissioning and installation is complete
- Apprenticeship as an industrial mechanic, mechatronics engineer or comparable qualification

**Seminar goals:**

- Use machine documentation as a working basis
- Mechanical service and maintenance measures independently carry out
- Troubleshooting and error correction
- Replace spare and wearing parts
- Operate the machine in set-up mode

**Seminar location:**

- Presence

**Timeframe:**

- 2 days

**Seminar content:**

- Machine structure
- Machine handling of the documentation
- Function and overview of the hydraulic plans
- Wearing parts recommendation
- Special tools / accessories
- Service and maintenance measures
- Functions of the control panel
- Machine malfunctions
- WALDRICH COBURG – Menu
- Emergency Free Driving Device
- Mechanical emergency release / protected areas
- Fluid technic
- Handling and functionality of the interactive production support (InPro) [InPro diagnosis/ InPro maintenance/ InPro machine status]\*

\* if available

# Service and maintenance seminar – mechanic

## Basis training – basic machine and machine periphery

Comprehensively trained service and maintenance employees can make a significant contribution to higher machine availability and shorter downtimes. We provide your employees with the necessary specific mechanical knowledge for the WALDRICH COBURG machine

### Machine periphery

**Target group:**

- Mechanic service and maintenance employees

**Number of participants:**

- Maximum 6 persons

**Requirement:**

- Commissioning and installation is complete
- Apprenticeship as an industrial mechanic, mechatronics engineer or comparable qualification

**Seminar goals:**

- Use machine documentation as a working basis
- Mechanical service and maintenance measures independently carry out
- Troubleshooting and error correction
- Replace spare and wearing parts
- Operate the machine in set-up mode

**Seminar location:**

- Presence

**Timeframe:**

- 1 day (without pallet system)
- 2 days (with pallet system)

**Seminar content:**

- Structure and functional processes of the machine periphery\*
- Machine documentation of the periphery
- Service and maintenance of the periphery
- Feeding systems for spindle units\*
- Automatic tool changing systems\*
- Automatic workpiece changing systems (e.g. pallets)\*

\* if available

# Service and maintenance seminar – electric

## Basis training – basic machine and machine periphery

If downtimes are to be kept to a minimum, well-trained electrical employees are the basic requirement. We show your service and maintenance employees how to operate the machine in set-up mode, how to find errors quickly / fixed and spare / wearing parts replaced.

### Basic machine

**Target group:**

- Electric service and maintenance employees

**Number of participants:**

- Maximum 6 persons

**Requirement:**

- Commissioning and installation is complete
- Apprenticeship as an industrial mechanic, mechatronics engineer or comparable qualification

**Seminar goals:**

- Use machine documentation as a working basis
- Mechanical service and maintenance measures independently carry out
- Facilitation of troubleshooting and error correction
- Replace spare and wearing parts
- Operate the machine in set-up mode

**Seminar location:**

- Presence

**Timeframe:**

- TAURUS / TAURUS Gemini: 2 days
- Project machines: 3 days

**Seminar content:**

- Security technology
- Machine construction
- Machine documentation
- Service and maintenance measures
- Data backup / data recovery
- Hardware replacement and hardware settings
- Machine control functions
- Control panel functions
- Machine malfunctions
- WALDRICH COBURG – Menu
- Emergency Free Driving Device (FFE)
- Defining, setting the zero points and travel paths
- Defining, setting DSS
- Interactive production support (InPro / or INDIS)\*, [InPro maintenance/InPro diagnosis / InPro machine status, InPro documentation]\*

\* if available



# Service and maintenance seminar – electric

## Basis training – basic machine and machine periphery

If downtimes are to be kept to a minimum, well-trained electrical employees are the basic requirement. We show your service and maintenance employees how to operate the machine in set-up mode, how to find errors quickly / fixed and spare / wearing parts replaced.

### Machine periphery

**Target group:**

- Electric service and maintenance employees

**Number of participants:**

- Maximum 6 persons

**Requirement:**

- Commissioning and installation is complete
- Apprenticeship as an industrial mechanic, mechatronics engineer or comparable qualification

**Seminar goals:**

- Use machine documentation as a working basis
- Electrical service and maintenance work on the machine peripherals independently carry out
- Troubleshooting and error correction machine peripherals
- Operation and online connection to the machine peripherals

**Seminar location:**

- Presence

**Timeframe:**

- 3 days (without pallet system)
- 4 days (with pallet system up to three set-up stations)

**Seminar content:**

- Security technology
- Machine construction
- Defining, setting the zero points and travel paths
- Defining, setting DSS
- Replacement of motors, encoder systems or other hardware
- Service and maintenance measures
- Feeding systems for spindle units\*
- Automatic tool changing systems\*
- Automatic workpiece changing systems double table or pallet systems\*
- Structure and functional processes of the machine peripherals\*

\* if available

# Programmer training

Would you like your employees to create or edit machining programs and cycles independently? Would you like to gain a deeper insight into programming? In this case, we can offer in-depth training based on the programming instructions.

**Target group:**

- Programmer work preparation

**Number of participants:**

- Maximum 6 persons

**Requirement:**

- Basic knowledge of CNC programming

**Seminar goals:**

- Create machining programs independently

**Seminar locations:**

- Presence
- Online
- WALDRICH COBURG

**Timeframe:**

- 4 days

**Seminar content:**

- Security technology
- Program management
- Program structure
- WALDRICH COBURG programming
- Use of coordinate systems
- Integration of feeding systems for spindle units\* and tool changing systems\*
- Tool correction and tool monitoring
- Technology parameters
- feed areas
- CNC programming based on the customer-specific programming manual
- Explanation and application of special M and G functions
- Program editing: program execution and optimization
- Machining of cycles
- Programming examples (general)

\* if available

# Standby – production support

Standby- We can impart you with the technological skills for a smooth start of your production through production support. The aim of the production support is a shortened start-up phase of the production after a new installation or modernization of your machine. Our experienced employees are on hand to your employees with help and advice.

**Target group:**

- Programmer work preparation

**Number of participants:**

- Maximum 6 persons

**Requirement:**

- Operation (basic seminar) or comparable qualification
- When processing customer workpieces, the same temperature conditions are required as for assembly/commissioning. According to the acceptance protocol
- Workpiece drawing will be provided until the pre-acceptance date

**Seminar goals:**

- Training of machine operators
- Reduction of start-up time at the start of production
- Process optimization
- Joint workpiece consultation
- Technology consulting

**Timeframe:**

- 1 week or more

**Seminar content:**

- Deepening of the previous operator training
- Supporting the customer in the daily production routine
- Security technology
- Support with machine operation and production
- Troubleshooting / Search
- Machining of customer-specific workpieces (programming of customer-specific workpieces is excluded)
- Safe handling of the interactive production support (InPro)\*

\* if available