

The Atlas Copco logo is positioned in the top right corner of the page. It consists of the company name "Atlas Copco" in a blue, italicized serif font, centered between two horizontal blue bars. The background of the entire page is a photograph of an industrial robotic welding station in a factory, with a car's metal chassis being worked on. The lighting is bright, highlighting the metallic surfaces and the complex machinery of the robotic arm.

Atlas Copco

Customer Training

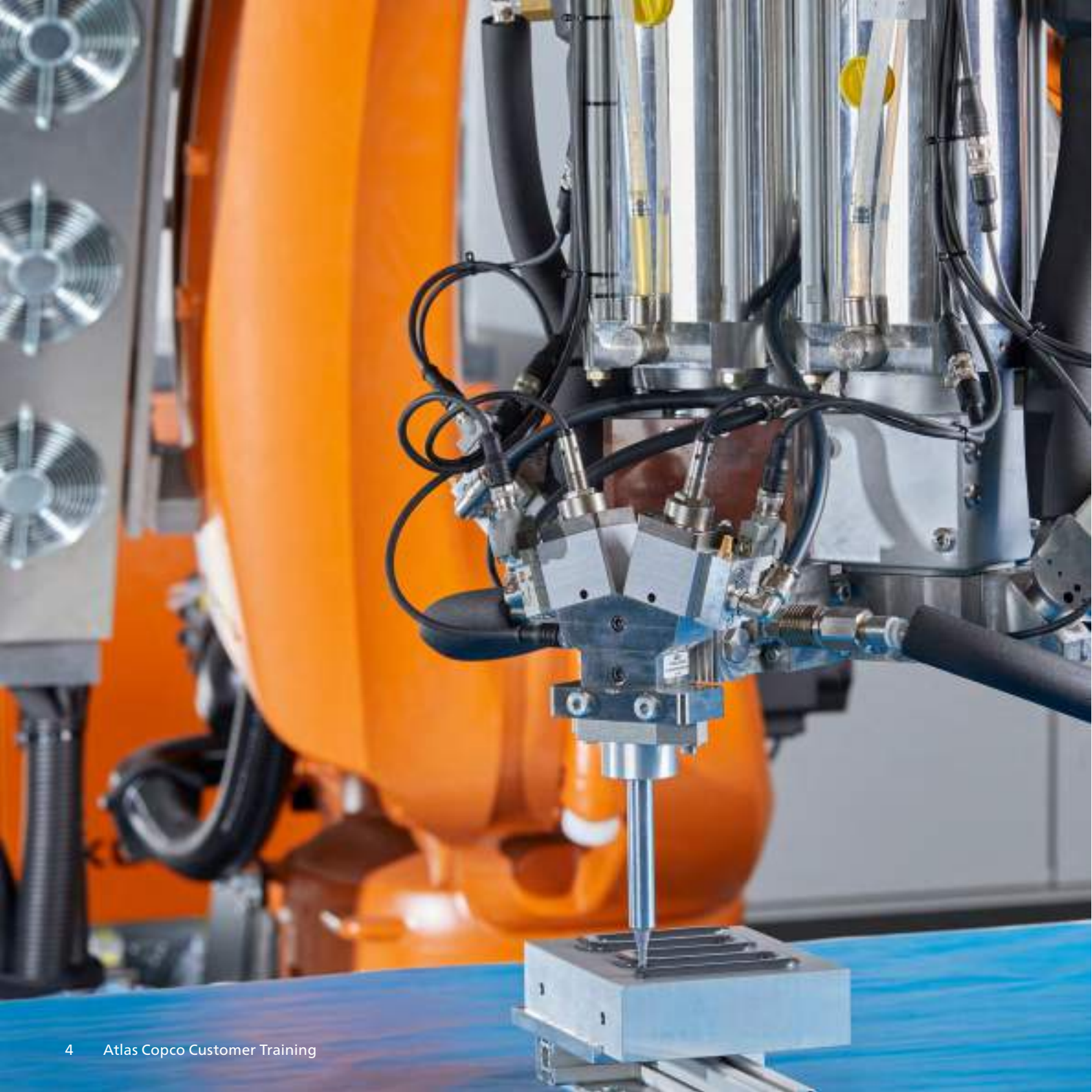
Atlas Copco IAS
Joining Technology

Issue 6 | Feb 2022

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Welcome to our training catalog!

Dear Customers,

Our customer training courses provide you with genuine added value, which can contribute significantly toward the productivity and efficiency of your processes. A basic requirement for using our innovative systems and facilities for the application of adhesive, sealing, and insulation materials is having expert operators. For this purpose, our certified training team and experienced service technicians provide you with the right know-how – on a practical basis in our training courses.

Due to our modular training concept, you can choose the training course that's best suited to your individual needs. All the important information about the training courses for our product lines SCA, Henrob and K-Flow can be found in this brochure.

We believe it is extremely important for our customers to feel satisfied and benefit from a training course that has long-lasting effects. As such, all our training rooms are equipped with automated application systems that can be largely adjusted to meet your individual requirements. It is important to us that you are able to understand the daily tasks set during our training courses, having both the time and peaceful environment needed to do so. We are able to provide such an environment



at our customer center in Bretten, at our IAS locations, or our trainers will be happy to visit you on site.

We offer training courses in closed customer groups. Why not take a look through this brochure and find out more about the varied training options we offer. We will be pleased to respond to your individual challenges, questions and wishes.

Sincerely,

Oleg Wagner
Training Manager

Our Tailor-made Training Concept

Our basic training sessions aimed at operating staff are complemented by our follow-up training for servicing employees. Our offering is expanded by information on application processes.



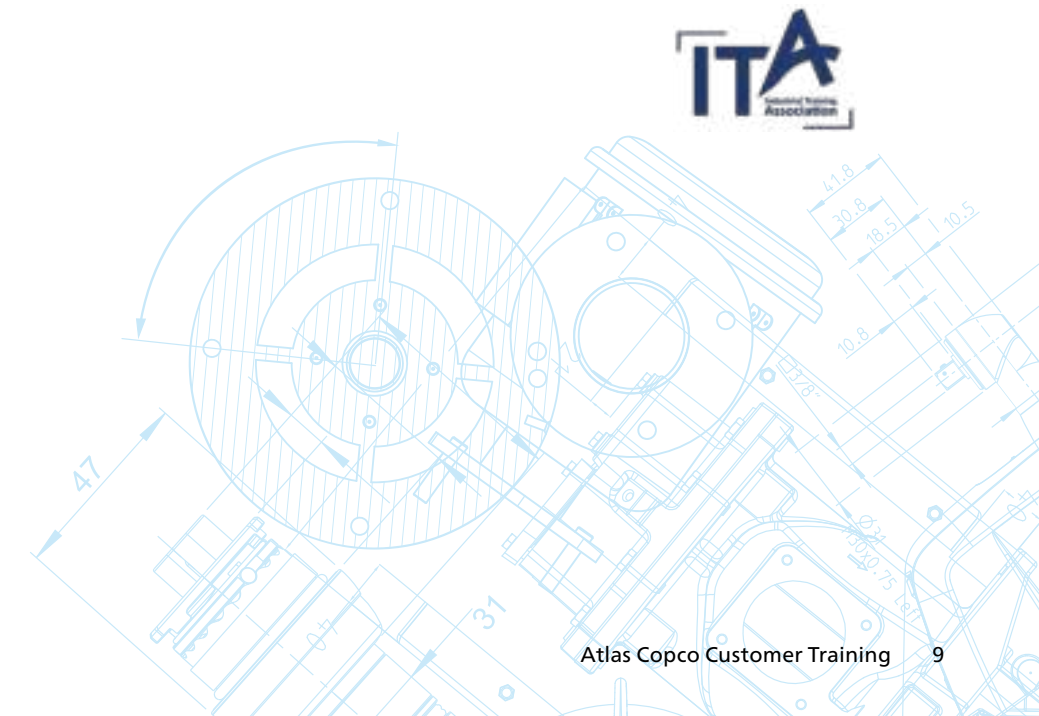
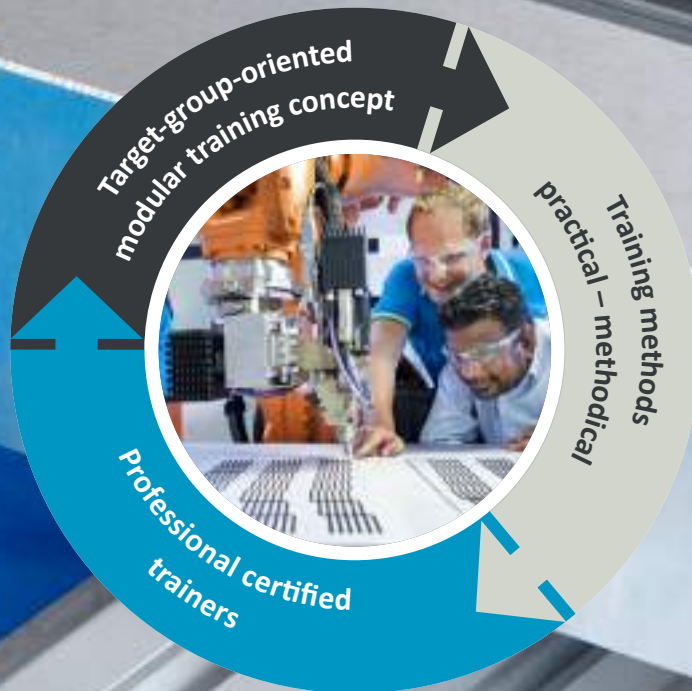
Our Experience – Your Success

We have put all our efforts into preparing methods of training that enable your employees to achieve optimal results using our systems in joining technology.

You can gain a multitude of advantages from our modular concept: Depending on your requirements, you can select the training modules individually for your employees. New topics can be integrated seamlessly into the existing concept.

Our training methods focus on real-life situations. Our training rooms are equipped with automatic application systems and the latest technology to ensure many practical exercises in small groups. Our training sessions are all based on a standardized concept. This provides the training team with presentations and training guides as well as presentation and training material. As a result, we can guarantee that the quality of our training courses is consistently high.

Our trainers are certified by the Industrial Training Association (ITA) and regularly undertake didactic training.





Your expert team in
Bretten:

**Please contact us for further
information:**

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IAS Customer Training
**We look forward to
meeting you!**

Issue 6/ February 2022

Contents of the training: ★★★★★

"Really varied, a great mix of theory and practice. Great insights into technical factors; we were given a lot of useful tips and tricks on installation."

"Sympathetic, informative and easily understandable explanations."

"My questions were addressed exceptionally well. The explanations were very good and the atmosphere was positive throughout the training course."

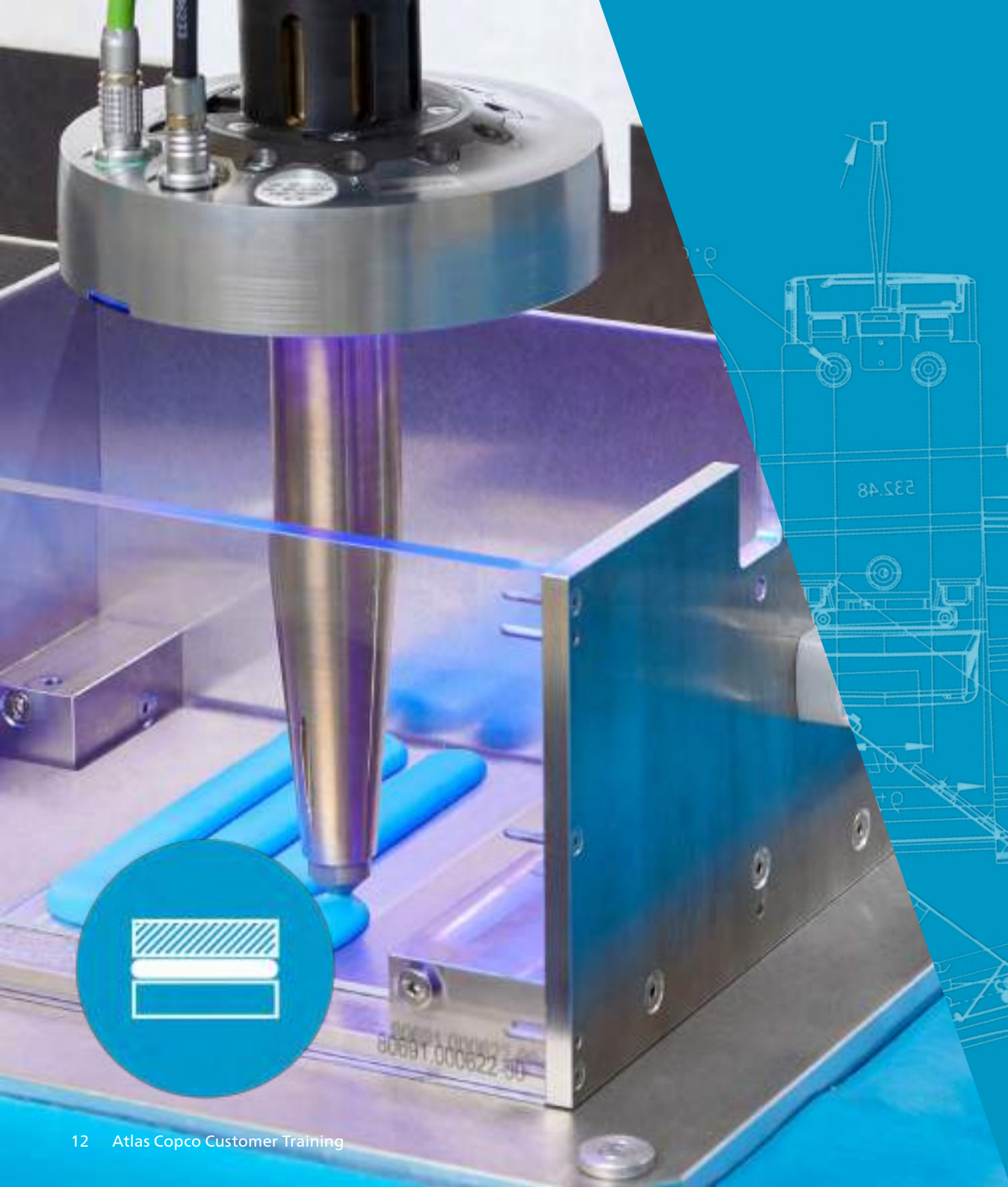
Equipment on site: ★★★★★

"Great training equipment on site."

Training team: ★★★★★

"The course is very practice-oriented. There is enough time for everyone's questions to be answered."

"The training team are experienced with the systems."



Adhesive Metering and Dispensing Technology

ADH SYS6000 System Control

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ADH SYS6000 V4 System Control

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ADH ASC5000 V3 System Control

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ADH Enso 7000 on ASC5000 V3 Core System Control

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ADH Enso 7000 on ASC5000 V3 Core BiW System Control

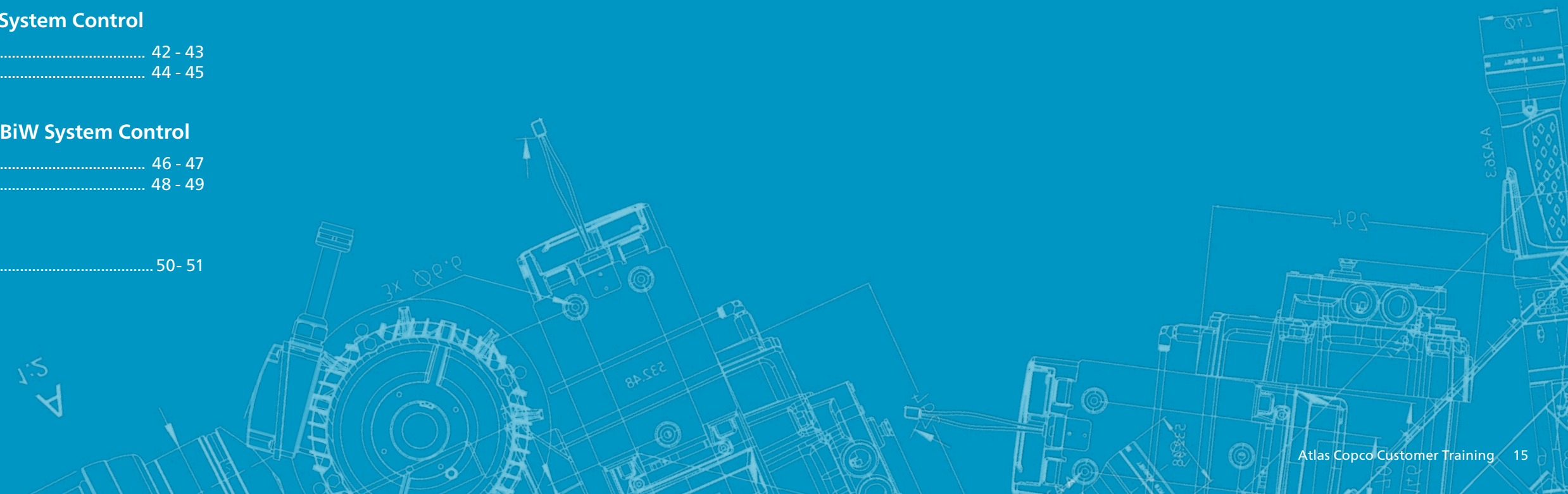
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ADH SYS6000 system control System operation and maintenance

Basic Training System Operation – 1C



Target group

This training is aimed at people who perform basic operations on the ADH SYS6000 system control. Basic operations include daily operational tasks and maintenance work. The training serves as the basis for follow-up training.



What's in it for you?

During this course, you'll learn how to:

- Explain technical terms within the field of application technology
- Assess the risks involved in system operation and take the relevant precautions
- Name the components of a SYS6000 1C application system and describe how they work
- Operate the pump controller in manual mode
- Perform a barrel exchange
- Explain how individual system components communicate with each other
- Interpret the screen displays of the ADH SYS6000 system control
- Complete basic settings on the ADH SYS6000 system control
- Describe the primary function of a meter
- Perform a data backup
- Perform maintenance work according to the maintenance plan
- Interpret alarms and warnings and initiate measures for repair



Content

- Factors that influence the application
- SYS6000 1C application system
- SYS6000 system control



Order Number

EC002001

Location

IAS Bretten or customer premises

Duration

2 days

Number of participants

Max. 6

Language

- German
- English
- Additional languages available upon request

Training Methods

- Tutorials
- Group work
- Hands-on exercises

The following equipment is required for on-site training at the customer:

- Operable system to train on
- Projector/ screen
- Flip chart/white board



ADH SYS6000 system control System operation and maintenance

Basic Training System Operation – 2C Static



Target group

This training is aimed at people who perform basic operations on the ADH SYS6000 system control for two component applications with a static mixer. Basic operations include daily operational tasks and maintenance work. The training serves as the basis for follow-up training.



What's in it for you?

During this course, you'll learn how to:

- Explain technical terms within the field of application technology
- Assess the risks involved in system operation and take the relevant precautions
- Name the components of a SYS6000 2K application system and describe how they work
- Operate the pump controller in manual mode
- Perform a barrel exchange
- Explain how individual system components communicate with each other
- Interpret the screen displays of the ADH SYS6000 system control
- Complete basic settings on the ADH SYS6000 system control
- Describe the primary function of a meter
- Perform a data backup
- Perform maintenance work according to the maintenance plan
- Interpret alarms and warnings and initiate measures for repair



Content

- Factors that influence the application
- SYS6000 application system for two-component applications
- SYS6000 system control

Order Number

EC002002

Location

IAS Bretten or customer premises

Duration

3 days

Number of participants

Max. 6

Language

- German
- English
- Additional languages available upon request

Training Methods

- Tutorials
- Group work
- Hands-on exercises

The following equipment is required for on-site training at the customer:

- Operable system to train on
- Projector/ screen
- Flip chart/white board

ADH SYS600 system control System operation and maintenance

Follow-Up Training Electrics



Target group

This training is aimed at people who perform maintenance work on electrical components of the ADH SYS6000 system control and who install software on these components.



What's in it for you?

During this course, you'll learn how to:

- Explain the functions and interfaces of the electrical system components of the ADH SYS6000 system control and pump controller
- Optimize process parameters
- Understand how the ADH SYS6000 system control and the higher-level control communicate with each other
- Use a measurement tool to analyze interface signals on the field bus
- Interpret the alarms and warnings of the ADH ASC6000 system control and perform a targeted troubleshooting
- Replace electrical system components
- Install the latest software on ADH components, CPU, TCU, and PCU
- Perform a back-up and restore backed-up data on the system



Content

- Electrical components of the ADH SYS6000 system control
- Electrical components of the ADH PCU 5000 pump controller
- Application and system parameters
- Troubleshooting



Recommended previous knowledge (alternative)

- EC002001 ADH SYS6000 system control, basic training in system operation - 1C
- EC002002 ADH SYS6000 system control, basic training in system operation - 2K



Order Number

EC002003

Location

IAS Bretten or customer premises

Duration

1 day

Number of participants

Max. 6

Language

- German
- English
- Additional languages available upon request

Training Methods

- Tutorials
- Group work
- Hands-on exercises

The following equipment is required for on-site training at the customer:

- Operable system to train on
- Projector/ screen
- Flip chart/white board



ADH SYS6000 V4 system control System operation and maintenance

Basic Training System Operation – 1C



Target group

This training is aimed at people who perform basic operations on the ADH SYS6000 V4 system control. Basic operations include daily operational tasks and maintenance work. The training serves as the basis for follow-up training.



What's in it for you?

During this course, you'll learn how to:

- Explain technical terms within the field of application technology
- Assess the risks involved in system operation and take the relevant precautions
- Name the components of a SYS6000 1C application system and describe how they work
- Operate the pump controller in manual mode
- Perform a barrel exchange
- Explain how individual system components communicate with each other
- Interpret the screen displays of the ADH SYS6000 V4 system control
- Complete basic settings on the ADH SYS6000 V4 system control
- Describe the primary function of a meter
- Perform a data backup
- Perform maintenance work according to the maintenance plan
- Interpret alarms and warnings and initiate measures for repair



Content

- Factors that influence the application
- SYS6000 1C application system
- SYS6000 V4 system control



Order Number

EC002017

Location

IAS Bretten or customer premises

Duration

2 days

Number of participants

Max. 6

Language


- German
- English
- Additional languages available upon request

Training Methods

- Tutorials
- Group work
- Hands-on exercises

The following equipment is required for on-site training at the customer:

- Operable system to train on
- Projector/ screen
- Flip chart/white board



ADH SYS6000 V4 system control System operation and maintenance

Basic Training System Operation – 2C Static



Target group

This training is aimed at people who perform basic operations on the ADH SYS6000 V4 system control for two component applications with a static mixer. Basic operations include daily operational tasks and maintenance work. The training serves as the basis for follow-up training.



What's in it for you?

During this course, you'll learn how to:

- Explain technical terms within the field of application technology
- Assess the risks involved in system operation and take the relevant precautions
- Name the components of a SYS6000 2K application system and describe how they work
- Operate the pump controller in manual mode
- Perform a barrel exchange
- Explain how individual system components communicate with each other
- Interpret the screen displays of the ADH SYS6000 V4 system control
- Complete basic settings on the ADH SYS6000 V4 system control
- Describe the primary function of a meter
- Perform a data backup
- Perform maintenance work according to the maintenance plan
- Interpret alarms and warnings and initiate measures for repair



Content

- Factors that influence the application
- SYS6000 application system for two-component applications
- SYS6000 V4 system control

Order Number

EC002032

Location

IAS Bretten or customer premises

Duration

3 days

Number of participants

Max. 6

Language

- German
- English
- Additional languages available upon request

Training Methods

- Tutorials
- Group work
- Hands-on exercises

The following equipment is required for on-site training at the customer:

- Operable system to train on
- Projector/ screen
- Flip chart/white board



ADH SYS6000 V4 system control System operation and maintenance

Follow-Up Training Electrics



Target group

This training is aimed at people who perform maintenance work on electrical components of the ADH SYS6000 V4 system control and who install software on these components.



What's in it for you?

During this course, you'll learn how to:

- Explain the functions and interfaces of the electrical system components of the ADH SYS6000 V4 system control and pump controller
- Optimize process parameters
- Understand how the ADH SYS6000 V4 system control and the higher-level control communicate with each other
- Use a measurement tool to analyze interface signals on the field bus
- Interpret the alarms and warnings of the ADH SYS6000 V4 system control and perform a targeted troubleshooting
- Replace electrical system components
- Install the latest software on ADH components, CPU, TCU, and PCU
- Perform a back-up and restore backed-up data on the system



Content

- Electrical components of the SYS6000 V4 system control
- Electrical components of the PCU 5000 pump controller
- Application and system parameters
- Troubleshooting



Recommended previous knowledge (alternative)

- EC002017 ADH SYS6000 V4 system control, basic training in system operation - 1C

Order Number

EC002018

Location

IAS Bretten or customer premises

Duration

1 day

Number of participants

Max. 6

Language

- German
- English
- Additional languages available upon request

Training Methods

- Tutorials
- Group work
- Hands-on exercises

The following equipment is required for on-site training at the customer:

- Operable system to train on
- Projector/ screen
- Flip chart/white board

Enso 7000 on SYS6000 V4 Core system control System operation and maintenance

Basic Training System Operation – 1C



Target group

This training is aimed at people who perform basic operations on the Enso 7000 on SYS6000 V4 Core System architecture. Basic operations include daily operational tasks and maintenance work. The training serves as the basis for follow-up training.



What's in it for you?

During this course, you'll learn how to:

- Explain technical terms within the field of application technology
- Assess the risks involved in system operation and take the relevant precautions
- Name the components of the Enso 7000 system architecture on the basis of SYS6000 V4 Core and to explain their function
- Operate the pump controller of the Enso barrel pump in the manual mode
- Perform a barrel exchange
- Explain how individual system components communicate with each other
- Understand the visualization on SYS6000 V4 (VisuXP)
- Complete basic settings on the VisuXP
- Describe the primary function of a meter
- Perform a data backup
- Perform maintenance work according to the maintenance plan
- Interpret alarms and warnings and initiate measures for repair



Content

- Factors that influence the application
- Enso 7000 on SYS6000 V4 Core Application System
- Enso 7000 on SYS6000 V4 Core system control

Order Number

EC002023

Location

IAS Bretten or customer premises

Duration

2 days

Number of participants

Max. 6

Language

- German
- English
- Additional languages available upon request

Training Methods

- Tutorials
- Group work
- Hands-on exercises

The following equipment is required for on-site training at the customer:

- Operable system to train on
- Projector/ screen
- Flip chart/white board





Enso 7000 on SYS6000 V4 Core system control System operation and maintenance

Follow-Up Training Electrics



Target group

This training is aimed at people who perform maintenance work on electrical components of the Enso 7000 system architecture on the basis of SYS6000 V4 Core and install software on these components.



What's in it for you?

During this course, you'll learn how to:

- Explain the functions and interfaces of the electrical system components of the Enso 7000 on SYS6000 V4 Core system control and pump controller
- Optimize process parameters
- Understand how the Enso 7000 on SYS6000 V4 Core system control and the higher level control communicate with each other
- Use a measurement tool to analyze interface signals on the field bus
- Interpret alarms and warnings of the ADH system and perform a targeted troubleshooting
- Replace electrical system components
- Perform a back-up and restore backed-up data on the system



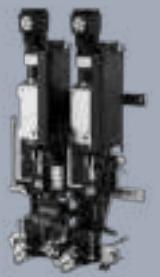
Content

- Electrical system components of the Enso 7000 on SYS6000 V4 Core system architecture
- Application and system parameters
- Troubleshooting



Recommended previous knowledge (alternative)

- EC002023 ADH Enso 7000 on SYS6000 V4 Core system control, basic training in system operation - 1C



Order Number

EC002025

Location

IAS Bretten or customer premises

Duration

1 day

Number of participants

Max. 6

Language

- German
- English
- Additional languages available upon request

Training Methods

- Tutorials
- Group work
- Hands-on exercises

The following equipment is required for on-site training at the customer:

- Operable system to train on
- Projector/ screen
- Flip chart/white board

ADH ASC5000 system control

System operation and maintenance

Basic Training System Operation – 1C



Target group

This training is aimed at people who perform basic operations on the ADH ASC5000 system control. Basic operations include daily operational tasks and maintenance work. The training serves as the basis for follow-up training.



What's in it for you?

During this course, you'll learn how to:

- Explain technical terms within the field of application technology
- Assess the risks involved in system operation and take the relevant precautions
- Name the components of an ADH application system and describe how they work
- Operate the pump controller in manual mode
- Perform a barrel exchange (optional)
- Explain how individual system components communicate with each other
- Interpret the screen displays of the ADH ASC5000 system control
- Complete basic settings on the ADH ASC5000 system control
- Describe the primary function of a meter
- Perform a data backup
- Perform maintenance work according to the maintenance plan
- Interpret alarms and warnings and initiate measures for repair



Content

- Factors that influence the application
- ADH application system
- ADH ASC5000 system control



Order Number

EC002004

Location

IAS Bretten or customer premises

Duration

3 days

Number of participants

Max. 6

Language

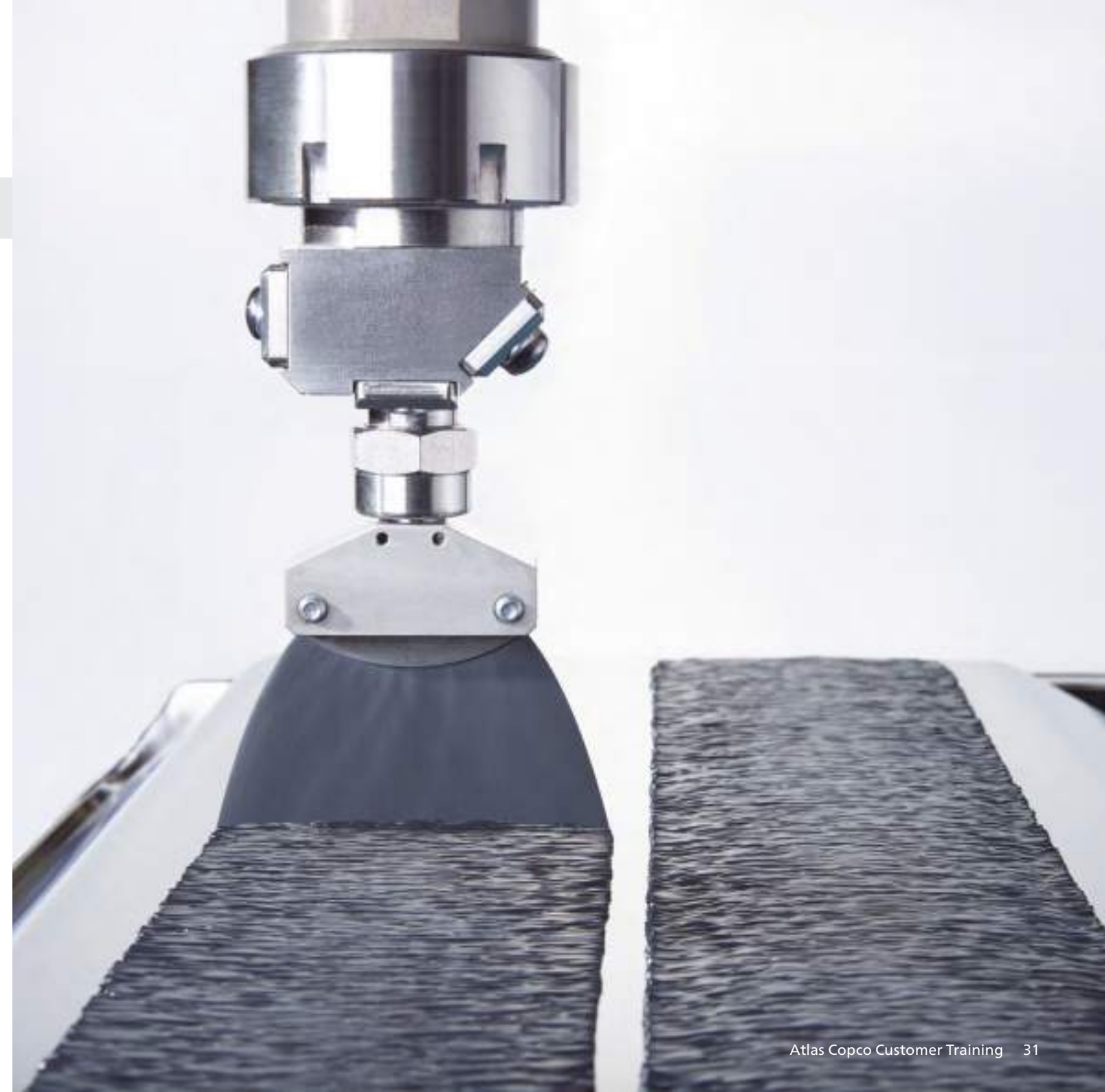
- German
- English
- Additional languages available upon request

Training Methods

- Tutorials
- Group work
- Hands-on exercises

The following equipment is required for on-site training at the customer:

- Operable system to train on
- Projector/ screen
- Flip chart/white board





ADH ASC5000 system control System operation and maintenance

Basic training in system operation - 2K static or dynamic



Target group

This training is aimed at people who perform basic operations on the ADH ASC5000 system control for two component applications with a static or dynamic mixer. Basic operations include daily operational tasks and maintenance work. The training serves as the basis for follow-up training.



What's in it for you?

During this course, you'll learn how to:

- Explain technical terms within the field of application technology
- Assess the risks involved in system operation and take the relevant precautions
- Name the components of an ADH application system and describe how they work
- Operate the pump controller in manual mode
- Perform a barrel exchange (optional)
- Explain how individual system components communicate with each other
- Interpret the screen displays of the ADH ASC5000 system control
- Complete basic settings on the ADH ASC5000 system control
- Describe the primary function of a meter
- Perform a data backup
- Perform maintenance work according to the maintenance plan
- Interpret alarms and warnings and initiate measures for repair



Content

- Factors that influence the application
- ADH application system for two-component applications
- ADH ASC5000 system control

Order Number

EC002005

Location

IAS Bretten or customer premises

Duration

3 days

Number of participants

Max. 6

Language

- German
- English
- Additional languages available upon request

Training Methods

- Tutorials
- Group work
- Hands-on exercises

The following equipment is required for on-site training at the customer:

- Operable system to train on
- Projector/ screen
- Flip chart/white board

ADH ASC5000 system control System operation and maintenance

Follow-Up Training Electricians



Target group

This training is aimed at people who perform maintenance work on electrical components of the ADH ASC5000 system control and who install software on these components.



What's in it for you?

During this course, you'll learn how to:

- Explain the functions and interfaces of the electrical components of the ADH ASC5000 system control
- Explain the functions and interfaces of the pump controller
- Optimize process parameters
- Understand how the ADH ASC5000 system control and the higher-level control communicate with each other
- Use a measurement tool to analyze interface signals on the field bus
- Interpret the alarms and warnings of the ADH ASC5000 system control and perform a targeted troubleshooting
- Replace electrical system components
- Install the latest software on ADH components, IPC, CPU, TCU, and PCU
- Perform a back-up and restore backed-up data on the system



Content

- Electrical components of the ADH ASC5000 system control
- Electrical components of the ADH PCU 5000 pump controller
- Application and system parameters
- Troubleshooting



Previous knowledge (alternative)

We recommend having completed the following training courses:

- EC002004 ADH ASC5000 system control, basic training in system operation - 1C
- EC002005 ADH ASC5000 system control, basic training in system operation - 2K static or dynamic



Order Number

EC002006

Location

IAS Bretten or customer premises

Duration

1 day

Number of participants

Max. 6

Language

- German
- English
- Additional languages available upon request

Training Methods

- Tutorials
- Group work
- Hands-on exercises

The following equipment is required for on-site training at the customer:

- Operable system to train on
- Projector/ screen
- Flip chart/white board

ADH ASC5000 V3 system control

System operation and maintenance

Basic Training System Operation – 1C



Target group

This training is aimed at people who perform basic operations on the ADH ASC5000 V3 system control. Basic operations include daily operational tasks and maintenance work. The training serves as the basis for follow-up training.



What's in it for you?

During this course, you'll learn how to:

- Explain technical terms within the field of application technology
- Assess the risks involved in system operation and take the relevant precautions
- Name the components of an ADH application system and describe how they work
- Operate the pump controller in manual mode
- Perform a barrel exchange (optional)
- Explain how individual system components communicate with each other
- Interpret the screen displays of the ADH ASC5000 V3 system control
- Complete basic settings on the ADH ASC5000 V3 system control
- Describe the primary function of a meter
- Perform a data backup
- Perform maintenance work according to the maintenance plan
- Interpret alarms and warnings and initiate measures for repair



Content

- Factors that influence the application
- ADH application system
- ADH ASC5000 V3 system control



Order Number

EC002019

Location

IAS Bretten or customer premises

Duration

3 days

Number of participants

Max. 6

Language

- German
- English
- Additional languages available upon request

Training Methods

- Tutorials
- Group work
- Hands-on exercises

The following equipment is required for on-site training at the customer:

- Operable system to train on
- Projector/ screen
- Flip chart/white board



ADH ASC5000 V3 system control System operation and maintenance

Basic training in system operation - 2K static or dynamic



Target group

This training is aimed at people who perform basic operations on the ADH ASC5000 V3 system control for two component applications with a static mixer. Basic operations include daily operational tasks and maintenance work. The training serves as the basis for follow-up training.



What's in it for you?

During this course, you'll learn how to:

- Explain technical terms within the field of application technology
- Assess the risks involved in system operation and take the relevant precautions
- Name the components of an ADH application system and describe how they work
- Operate the pump controller in manual mode
- Perform a barrel exchange (optional)
- Explain how individual system components communicate with each other
- Interpret the screen displays of the ADH ASC5000 V3 system control
- Complete basic settings on the ADH ASC5000 V3 system control
- Describe the primary function of a meter
- Perform a data backup
- Perform maintenance work according to the maintenance plan
- Interpret alarms and warnings and initiate measures for repair



Content

- Factors that influence the application
- ADH application system for two-component applications
- ADH ASC5000 V3 system control

Order Number

EC002020

Location

IAS Bretten or customer premises

Duration

3 days

Number of participants

Max. 6

Language

- German
- English
- Additional languages available upon request

Training Methods

- Tutorials
- Group work
- Hands-on exercises

The following equipment is required for on-site training at the customer:

- Operable system to train on
- Projector/ screen
- Flip chart/white board

ADH ASC5000 V3 system control System operation and maintenance

Follow-Up Training Electrics



Target group

This training is aimed at people who perform maintenance work on electrical components of the ADH ASC5000 V3 system control and who install software on these components.



What's in it for you?

During this course, you'll learn how to:

- Explain the functions and interfaces of the electrical components of the ADH ASC5000 V3 system control
- Explain the functions and interfaces of the pump controller
- Optimize process parameters
- Understand how the ADH ASC5000 V3 system control and the higher-level control communicate with each other
- Use a measurement tool to analyze interface signals on the field bus
- Interpret the alarms and warnings of the ADH ASC5000 V3 system control and perform a targeted troubleshooting
- Replace electrical system components
- Install the latest software on ADH components, IPC, CPU, TCU, and PCU
- Perform a back-up and restore backed-up data on the system



Content

- Electrical components of the ADH ASC5000 V3 system control
- Electrical components of the ADH PCU 5000 pump controller
- Application and system parameters
- Troubleshooting



Previous knowledge (alternative)

We recommend having completed the following training courses:

- EC002019 ADH ASC5000 V3 system control, basic training in system operation - 1C
- EC002020 ADH ASC5000 V3 system control, basic training in system operation - 2K static or dynamic



Order Number

EC002021

Location

IAS Bretten or customer premises

Duration

1 day

Number of participants

Max. 6

Language

- German
- English
- Additional languages available upon request

Training Methods

- Tutorials
- Group work
- Hands-on exercises

The following equipment is required for on-site training at the customer:

- Operable system to train on
- Projector/ screen
- Flip chart/white board



ADH ASC5000 plus system control System operation and maintenance

Basic Training System Operation – 1C



Target group

This training is aimed at people who perform basic operations on the ADH ASC5000 plus system control. Basic operations include daily operational tasks and maintenance work. The training serves as the basis for follow-up training.



What's in it for you?

During this course, you'll learn how to:

- Explain technical terms within the field of application technology
- Assess the risks involved in system operation and take the relevant precautions
- Name the components of an ADH application system and describe how they work
- Operate the pump controller in manual mode
- Perform a barrel exchange (optional)
- Explain how individual system components communicate with each other
- Interpret the screen displays of the ADH ASC5000 plus system control
- Complete basic settings on the ADH ASC5000 plus system control
- Describe the primary function of a meter
- Perform a data backup
- Perform maintenance work according to the maintenance plan
- Interpret alarms and warnings and initiate measures for repair



Content

- Factors that influence the application
- ADH application system
- ADH ASC5000 plus system control



Order Number

EC002007

Location

IAS Bretten or customer premises

Duration

3 days

Number of participants

Max. 6

Language

- German
- English
- Additional languages available upon request

Training Methods

- Tutorials
- Group work
- Hands-on exercises

The following equipment is required for on-site training at the customer:

- Operable system to train on
- Projector/ screen
- Flip chart/white board



Order Number
EC002008

Location
IAS Bretten or customer premises

Duration
1 day

Number of participants
Max. 6

Language

- German
- English
- Additional languages available upon request

Training Methods

- Tutorials
- Group work
- Hands-on exercises

The following equipment is required for on-site training at the customer:

- Operable system to train on
- Projector/ screen
- Flip chart/white board

ADH ASC5000 plus system control System operation and maintenance

Follow-Up Training Electricians



Target group

This training is aimed at people who perform maintenance work on electrical components of the ADH SYS ACS5000 system control and who install software on these components.



What's in it for you?

During this course, you'll learn how to:

- Explain the functions and interfaces of the electrical system components of the control and the pump control
- Optimize process parameters
- Understand how the ADH ASC5000 plus system control and the higher-level control communicate with each other
- Use a measurement tool to analyze interface signals on the field bus
- Interpret the alarms and warnings of the ADH ASC5000 plus system control and perform a targeted troubleshooting
- Replace electrical system components
- Install the latest software on ADH components, IPC, CPU, TCU, and PCU
- Perform a back-up and restore backed-up data on the system



Content

- Electrical components of the ADH ASC5000 plus system control
- Electrical components of the ADH PCU5000 pump controller
- Application and system parameters
- Troubleshooting



Recommended previous knowledge

- EC002007 ADH ASC5000 plus system control, basic training in system operation 1C





Enso 7000 on ASC5000 V3 Core system control System operation and maintenance

Basic Training System Operation – 1C



Target group

This training is aimed at people who perform basic operations on the Enso 7000 on ASC5000 V3 Core system control. Basic operations include daily operational tasks and maintenance work. The training serves as the basis for follow-up training.



What's in it for you?

During this course, you'll learn how to:

- Explain technical terms within the field of application technology
- Assess the risks involved in system operation and take the relevant precautions
- Name the components of an ADH application system and describe how they work
- Operate the pump controller in manual mode
- Perform a barrel exchange (optional)
- Explain how individual system components communicate with each other
- Interpret the screen displays of the Enso 7000 on ASC5000 V3 Core system control
- Complete basic settings on the Enso 7000 to ASC5000 V3 Core system control
- Describe the primary function of a meter
- Perform a data backup
- Perform maintenance work according to the maintenance plan
- Interpret alarms and warnings and initiate measures for repair



Content

- Factors that influence the application
- ADH application system
- ADH Enso 7000 on ASC5000 V3 Core system control
- Display Enso 7000 on ASC5000 V3 Core



Order Number

EC002024

Location

IAS Bretten or customer premises

Duration

2 days

Number of participants

Max. 6

Language

- German
- English
- Additional languages available upon request

Training Methods

- Tutorials
- Group work
- Hands-on exercises

The following equipment is required for on-site training at the customer:

- Operable system to train on
- Projector/ screen
- Flip chart/white board

**Order Number**

EC002026

Location

IAS Bretten or customer premises

Duration

1 day

Number of participants

Max. 6

Language

- German
- English
- Additional languages available upon request

Training Methods

- Tutorials
- Group work
- Hands-on exercises

The following equipment is required for on-site training at the customer:

- Operable system to train on
- Projector/ screen
- Flip chart/white board

Enso 7000 on ASC5000 V3 Core System operation and maintenance

Follow-Up Training Electricians

**Target group**

This training is aimed at people who perform maintenance work on electrical components of the ADH Enso 7000 on ASC5000 V3 Core system control and who install software on these components.

**What's in it for you?**

During this course, you'll learn how to:

- Functions and interfaces of the electrical SIm
- Explain the functions and interfaces of the electrical system components of the Enso 7000 on ASC5000 V3 Core BiW system control
- Explain the functions and interfaces of the pump controller
- Optimize process parameters
- Understand how the Enso 7000 on ASC5000 V3 Core BiW system control and the higher level control communicate with each other
- Use a measurement tool to analyze interface signals on the field bus
- Interpret alarms and warnings of the Enso 7000 on ASC5000 V3 Core BiW system control and perform a targeted troubleshooting
- Replace electrical system components
- Perform a back-up and restore backed-up data on the system

**Content**

- Electrical components of the ADH Enso 7000 on ASC5000 V3 Core system control
- Electrical components
- Application and system parameters
- Troubleshooting

**Recommended previous knowledge**

- EC002024 ADH ASC5000 plus system control basic training system operation - 1C





Enso 7000 on ASC5000 V3 Core BiW system control 1C System operation and maintenance

Basic Training System Operation – 1C



Target group

This training is aimed at people who perform basic operations on the Enso 7000 on ASC5000 V3 Core BiW system control 1C. Basic operations include daily operational tasks and maintenance work. The training serves as the basis for follow-up training.



What's in it for you?

During this course, you'll learn how to:

- Explain technical terms within the field of application technology
- Assess the risks involved in system operation and take the relevant precautions
- Name the components of an ADH application system and describe how they work
- Operate the pump controller in manual mode
- Perform a barrel exchange
- Explain how individual system components communicate with each other
- Interpret the screen displays of the Enso 7000 on ASC5000 V3 Core BiW system control
- Complete basic settings on the Enso 7000 on ASC5000 V3 Core BiW system control
- Describe the primary function of a meter
- Perform a data backup
- Perform maintenance work according to the maintenance plan
- Interpret alarms and warnings and initiate measures for repair



Content

- Factors that influence the application
- ADH application system
- ADH system control
- Display Enso 7000 on ASC5000 V3 Core BiW



Order Number

EC002031

Location

IAS Bretten or customer premises

Duration

2 days

Number of participants

Max. 6

Language

- German
- English
- Additional languages available upon request

Training Methods

- Tutorials
- Group work
- Hands-on exercises

The following equipment is required for on-site training at the customer:

- Operable system to train on
- Projector/ screen
- Flip chart/white board

Enso 7000 on ASC5000 V3 Core BiW system control 1C System operation and maintenance

Follow-Up Training Electricians



Target group

This training is aimed at people who perform maintenance work on electrical components of the ADH ASC5000 V3 system control and who install software on these components.



What's in it for you?

During this course, you'll learn how to:

- Explain the functions and interfaces of the electrical system - components of the Enso 7000 on ASC5000 V3 Core BiW system control
- Explain the functions and interfaces of the pump controller
- Optimize process parameters
- Understand how the Enso 7000 on ASC5000 V3 Core BiW system control and the higher level control communicate with each other
- Use a measurement tool to analyze interface signals on the field bus
- Interpret alarms and warnings of the Enso 7000 on ASC5000 V3 Core BiW system control and perform a targeted troubleshooting
- Replace electrical system components
- Perform a back-up and restore backed-up data on the system



Content

- Electrical components of the ADH Enso 7000 on ASC5000 V3 Core BiW system control
- Application and system parameters
- Troubleshooting



Previous knowledge (alternative)

We recommend having completed the following training courses:

- EC002031 Enso 7000 on ASC5000 V3 Core BiW system control Basic training System operation - 1C



Order Number

EC002027

Location

IAS Bretten or customer premises

Duration

1 day

Number of participants

Max. 6

Language

- German
- English
- Additional languages available upon request

Training Methods

- Tutorials
- Group work
- Hands-on exercises

The following equipment is required for on-site training at the customer:

- Operable system to train on
- Projector/ screen
- Flip chart/white board





Mechanical components

Follow-Up Training Mechanics



Target group

This training is aimed at people who operate ADH systems and provide support during maintenance work. This includes changing complete components, such as applicators and meters, but not repairing, assembling, or disassembling them.



What's in it for you?

During this course, you'll learn how to:

- Perform maintenance work
- Replacing plasticizer
- Replace material hoses
- Grease the meter spindle or check the greasing
- Identify wear on mechanical components
- Identify mechanical errors and understand how they can impact the system



Content

- Mechanical components of the ADH application system
- Maintenance of mechanical components
- How to perform a barrel exchange (if applicable)



Previous knowledge

- We recommend having completed the basic training in system operation for the corresponding ADH application system.



Notice

- Safety shoes are required to attend this training course



Order Number

EC002009

Location

IAS Bretten or customer premises

Duration

1 day

Number of participants

Max. 6

Language

- German
- English
- Additional languages available upon request

Training Methods

- Tutorials
- Group work
- Hands-on exercises

The following equipment is required for on-site training at the customer:

- Operable system to train on
- Projector/ screen
- Flip chart/white board

Special Technologies



Application Processes and System Interface



Target group

This training is aimed at robot programmers requiring a deeper insight into the application processes.



What's in it for you?

During this course, you'll learn how to:

- Optimize process parameters for an application with a specified application image
- Describe the interface signals on the field bus and their temporal sequence
- Optimize interface signals using a measurement report



Content

- Calculating the parameters required in order to achieve the targets set for the volume applied
- Optimizing parameters
- Optimizing the application cycle



Previous knowledge

- Prior experience with programming industrial robots



Notice

- This training course is specially adapted to the customer's system and interface
- Training can be conducted with either a Kuka or Fanuc robot. Please specify the type of the robot that you would like when ordering the training
- Special gluing programs, such as those offered by robot manufacturers, are not covered during this training course

Order Number

EC002010

Location

IAS Bretten or customer premises

Duration

1 day

Number of participants

Max. 6

Language

- German
- English
- Additional languages available upon request

Training Methods

- Tutorials
- Group work
- Hands-on exercises

The following equipment is required for on-site training at the customer:

- Operable system to train on
- Projector/ screen
- Flip chart/white board

Special Technologies



SCA visual quality assurance



Target group

This training course is aimed at people who use the Real Time Vision System (RTVision.t) of the SCA product range in combination with an application system.



What's in it for you?

During this course, you'll learn how to:

- Explain the functioning and components of RTVision.t
- Describe the sequence and scope of the bead monitoring
- Explain and configure the parameters for the online bead monitoring
- Record an image sequence
- Define areas for bead monitoring and tolerances for bead evaluation
- Configure the application settings
- Analyze application errors with regard to their causes
- Back up/restore the QUISS processor



Content

- Structure and function of the QUISS RTVision.t system
- Visual application monitoring
- Installing and setting up the QUISS RTVision.t system combined with an SCA application system



Recommended previous knowledge (alternative)

- EC002001 ADH SYS6000 system control, basic training in system operation - 1C
- EC002004 ADH ASC5000 system control, basic training in system operation - 1C

Order Number

EC002011

Location

IAS Bretten or customer premises

Duration

3 days

Number of participants

Max. 6

Language

- German
- English
- Additional languages available upon request

Training Methods

- Tutorials
- Group work
- Hands-on exercises

The following equipment is required for on-site training at the customer:

- Operable system to train on
- Projector/ screen
- Flip chart/white board



Special Technologies

IDDA.Seal technology and application process



Target group

This training is aimed at people who start up and configure the IDDA.Seal.



What's in it for you?

During this course, you'll learn how to:

- Describe the advantages of IDDA.Seal in comparison with conventional application technology (for example, Mini Flat Stream)
- Describe the properties, structure and functionality of the IDDA.Seal actuator technology
- Identify and explain the IDDA.Seal parameters
- Parameterize a linear drive
- Analyze, evaluate and optimize application images



Content

- The new type of sealing
- Actuator technology – 5 material valves, electrically driven
- Characteristics – terms and parameters
- Pressure control – why IDDA.Seal is applied under pressure control
- Nozzle workspace – application-specific limit values
- Linear travel – parameterizing, application and optimization



Recommended previous knowledge (alternative)

- EC002004 ADH ASC5000 V3 system control, basic training in system operation - 1C



Order Number

EC002016

Location

IAS Bretten or customer premises

Duration

2 days

Number of participants

Max. 6

Language

- German
- English
- Additional languages available upon request

Training Methods

- Tutorials
- Group work
- Hands-on exercises

The following equipment is required for on-site training at the customer:

- Operable system to train on
- Projector/ screen
- Flip chart/white board



Special Technologies

E-swirl in the Body Shop



Target group

This training course is aimed at people who commission electrical swirls (E-swirls) and configure bead parameters for Body Shop specifications, such as bead fold gluing.



What's in it for you?

During this course, you'll learn how to:

- Explain how an E-swirl works and describe its components
- Describe the characteristic features of the E-swirl application when high-viscosity material is used
- Configure parameters for an E-swirl application according to specifications
- Determine which factors can influence the E-swirl application and optimize the application
- Explain how an E-swirl control works
- Describe the principle of bead fold analysis with regard to local guidelines
- Perform basic maintenance work on an E-swirl



Content

- E-swirl structure and function
- E-swirl application
- E-swirl routine maintenance



Recommended previous knowledge

- EC002001 ADH SYS6000 system control, basic training in system operation - 1C

Order Number

EC002012

Location

IAS Bretten or customer premises

Duration

1 day

Number of participants

Max. 6

Language

- German
- English
- Additional languages available upon request

Training Methods

- Tutorials
- Group work
- Hands-on exercises

The following equipment is required for on-site training at the customer:

- Operable system to train on
- Projector/ screen
- Flip chart/white board



Special Technologies

E-swirl in the Paint Shop



Target group

This training course is aimed at people who commission electrical swirls (E-swirls) and configure bead parameters for paint shop specifications in terms of bead sealing.



What's in it for you?

During this course, you'll learn how to:

- Explain how an E-swirl works and describe its components
- Describe the characteristic features of the E-swirl application when a material of medium viscosity is used
- Configure parameters for an E-swirl application according to specifications
- Determine which factors can influence the E-swirl application and optimize the application
- Explain how an E-swirl control works
- Perform basic maintenance work on an E-swirl



Content

- E-swirl structure and function
- E-swirl application
- E-swirl routine maintenance



Recommended previous knowledge

- EC002004 ADH ASC5000 system control, basic training in system operation - 1C

Order Number

EC002013

Location

IAS Bretten or customer premises

Duration

1 day

Number of participants

Max. 6

Language

- German
- English
- Additional languages available upon request

Training Methods

- Tutorials
- Group work
- Hands-on exercises

The following equipment is required for on-site training at the customer:

- Operable system to train on
- Projector/ screen
- Flip chart/white board

Special Technologies

E-swirl 2 AdX in the Body Shop



Target group

This training course is aimed at people who commission the electrical swirl (E-swirl) 2 AdX with adjustable eccentric and configure bead parameters for Body Shop specifications, such as bead fold gluing.



What's in it for you?

During this course, you'll learn how to:

- Explain how an E-swirl 2 AdX works and describe its components
- Describe the characteristic features of the E-swirl application when high-viscosity material is used
- Configure parameters for an E-swirl application according to specifications
- Determine which factors can influence the E-swirl application and optimize the application
- Explain how an E-swirl control works
- Describe the principle of bead fold analysis with regard to local guidelines
- Perform basic maintenance work on the E-swirl 2 AdX by replacing assemblies:
 - Pneumatic drive for eccentric adjustment
 - Mounted components: electrical drive with eccentric
 - Eccentric calibration



Content

- E-swirl 2 AdX structure and function
- E-swirl 2 AdX application
- E-swirl 2 AdX routine maintenance
- Replacing faulty components in the E-swirl 2 AdX



Recommended previous knowledge

- EC002001 ADH SYS6000 system control, basic training in system operation - 1C



Order Number

EC002014

Location

IAS Bretten or customer premises

Duration

1 day

Number of participants

Max. 6

Language

- German
- English
- Additional languages available upon request

Training Methods

- Tutorials
- Group work
- Hands-on exercises

The following equipment is required for on-site training at the customer:

- Operable system to train on
- Projector/ screen
- Flip chart/white board



Order Number

EC002015

Location

IAS Bretten or customer premises

Duration

1 day

Number of participants

Max. 6

Language

- German
- English
- Additional languages available upon request

Training Methods

- Tutorials
- Group work
- Hands-on exercises

The following equipment is required for on-site training at the customer:

- Operable system to train on
- Projector/ screen
- Flip chart/white board

Special Technologies

E-swirl 2 AdX in the Paint Shop



Target group

This training course is aimed at people who commission the electrical swirl (E-swirl) 2 AdX with adjustable eccentric and configure bead parameters for paint shop specifications in terms of bead sealing.



What's in it for you?

During this course, you'll learn how to:

- Explain how an E-swirl 2 AdX works and describe its components
- Describe the characteristic features of the E-swirl application when a material of medium viscosity is used
- Configure parameters for an E-swirl application according to specifications
- Determine which factors can influence the E-swirl application and optimize the application
- Explain how an E-swirl control works
- Perform basic maintenance work on the E-swirl 2 AdX by replacing assemblies:
 - Pneumatic drive for eccentric adjustment
 - Mounted components: electrical drive with eccentric
 - Eccentric calibration



Content

- E-swirl 2 AdX structure and function
- E-swirl 2 AdX application
- E-swirl 2 AdX routine maintenance
- Replacing faulty components in the E-swirl 2 AdX



Recommended previous knowledge

- EC002004 ADH ASC5000 system control, basic training in system operation - 1C

Self-Pierce Riveting

SPR System Operator



Target group

This training is aimed at people who perform basic operations with the self-pierce riveting system. Basic operations include daily operational tasks and maintenance work.



What's in it for you?

During this course, you'll learn how to:

- Explain technical terms within the field of self-pierce riveting technology
- Assess the risks involved in system operation and take the relevant precautions
- Name the components of a self-pierce riveting system and describe how they work
- Explain how individual system components communicate with each other
- Interpret the information provided by the on-screen display of the HMI
- Configure the basic settings in the self-pierce riveting system
- Explain the basic function of the self-pierce riveting tools
- Carry out basic maintenance measures in accordance with the instruction manual
- Interpret alarms and warnings and initiate measures for repair



Content

- Basics of self-pierce riveting
- Quality characteristics of a self-pierce rivet joint
- Components of the self-pierce riveting system
- Operation of the self-pierce riveting system
- Basics troubleshooting



Previous knowledge

- None



Order Number

EC003001

Location

IAS Bretten or customer premises

Duration

2 days

Number of participants

Max. 6

Language

- German
- English
- Additional languages available upon request

Training Methods

- Tutorials
- Group work
- Hands-on exercises

The following equipment is required for on-site training at the customer:

- Operable system to train on
- Projector
- Flip chart/white board





Self-Pierce Riveting

SPR System Maintenance - Electrics



Target group

This training is aimed at people who perform maintenance work on electrical components of the self-pierce riveting system.



What's in it for you?

During this course, you'll learn how to:

- Explain the functions and interfaces of the electrical components of the self-pierce riveting system
- Understand how the self-pierce riveting system control and the higher-level control communicate with each other
- Interpret the alarms and warnings of the self-pierce riveting system control and perform troubleshooting
- Replace electrical system components
- Perform a back-up and restore backed-up data on the system



Content

- Electrical components of the self-pierce riveting system
- Application and system parameters
- Troubleshooting



Previous knowledge

- EC003001 SPR Basic Training System Operator

Order Number

EC003002

Location

IAS Bretten or customer premises

Duration

1 day

Number of participants

Max. 6

Language

- German
- English
- Additional languages available upon request

Training Methods

- Tutorials
- Group work
- Hands-on exercises

The following equipment is required for on-site training at the customer:

- Operable system to train on
- Projector/ screen
- Flip chart/white board

Self-Pierce Riveting

SPR System Maintenance - Mechanics



Target group

This training is aimed at people who perform maintenance work on mechanical components such as setter, die, rivet feed, rivet setting tool etc.



What's in it for you?

During this course, you'll learn how to:

- Perform maintenance work
- Identify wear on mechanical components
- Replace setter, die, and stamp
- Replace and clean certain components of the rivet feed
- Replacing the rivet setting tool
- Clean and lubricate certain components
- Interpret the alarms and warnings of the self-pierce riveting system control and perform troubleshooting



Content

- Mechanical components of the self-pierce riveting system
- Maintenance of mechanical components
- Troubleshooting



Previous knowledge

- EC003001 SPR Basic Training System Operator



Order Number

EC003003

Location

IAS Bretten or customer premises

Duration

1 day

Number of participants

Max. 6

Language

- German
- English
- Additional languages available upon request

Training Methods

- Tutorials
- Group work
- Hands-on exercises

The following equipment is required for on-site training at the customer:

- Operable system to train on
- Projector/ screen
- Flip chart/white board



Order Number

EC003004

Location

IAS Bretten or customer premises

Duration

1 day

Number of participants

Max. 6

Language

- German
- English
- Additional languages available upon request

Training Methods

- Tutorials
- Group work
- Hands-on exercises

Self-Pierce Riveting

Process Expert



Target group

This training is aimed at people who monitor and optimize the joining quality as process experts



What's in it for you?

During this course, you'll learn how to:

- Explain the self-piercing rivet setting process and basic topics on the area of joining quality
- Create joining points in the control of the self-pierce riveting system
- Optimize joining parameters
- Teach and optimize process tolerances in the RivMon process monitoring



Content

- Self-piercing rivet setting process and joining quality
- RivMon process monitoring



Previous knowledge

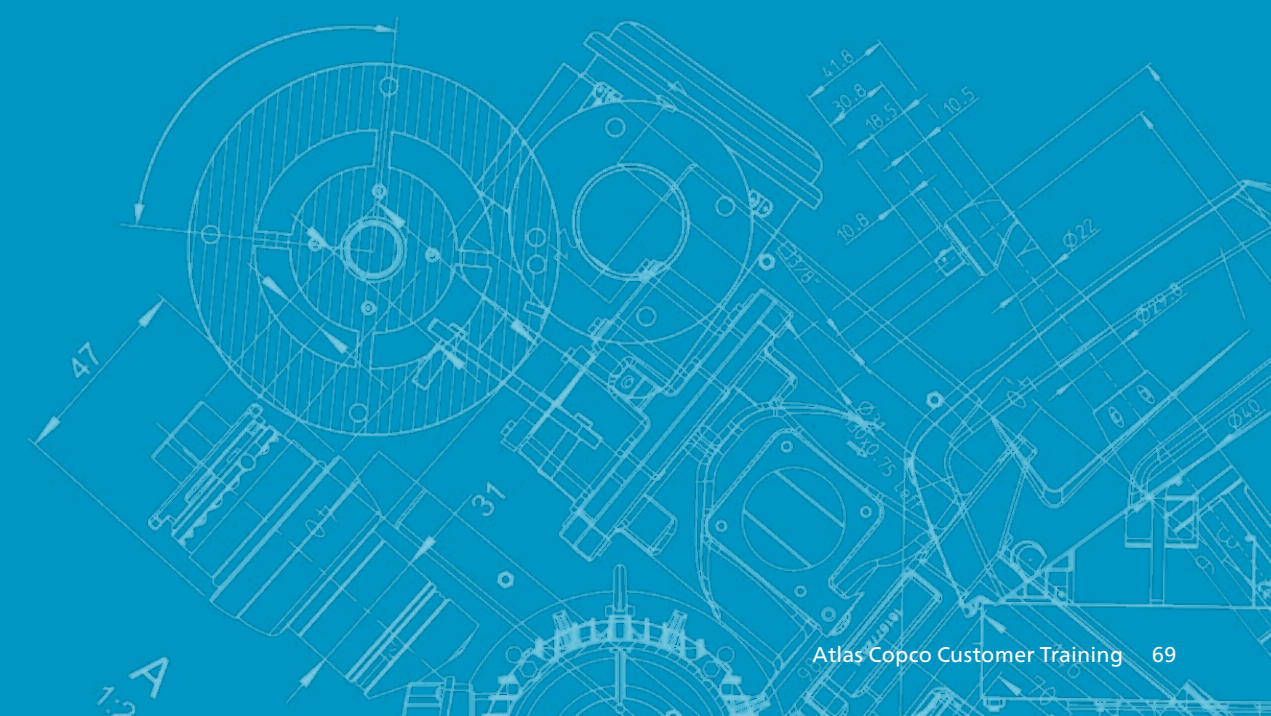
- EC003001 SPR Basic Training System Operator

The following training equipment must be provided for the training:

- Fully functional training system / laboratory system SPR
- Angle grinder
- Dial gage
- Grinding plate for cutting pattern optimization, if necessary
- Possibility of magnification, e.g. magnifying glass
- Steel and aluminum cuts
- Different types of rivets and dies

Flow Drilling Screwing

FDF Flow Drilling Screwing Operator Training	70 - 71
FDF Flow Drilling Screwing Expert Training	72
FDF Flow Drilling Screwing Maintenance Training	73
FDF Flow Drilling Screwing Joining Technology Workshop	74 - 75





Order Number

EC004001

Location

IAS Geretsried or customer premises

Duration

1 - 2 days, as required

Number of participants

Max. 6

Language

- German
- English
- Additional languages available upon request

Training Methods

- Tutorials
- Group work
- Hands-on exercises

The following equipment is required for on-site training at the customer:

- Operable system to train on
- Projector/ screen
- Flip chart/white board

Flow Drilling Screwing

Operator Training FDF Flow Drilling Screwing



Target group

This training is aimed at the operational personnel, who are required to know the basic operations on the system. Basic operations include daily operational tasks and maintenance work.



What's in it for you?

By participating in this training, you will be able to:

- Understand the basics of the process
- Gain an overview of the various system components and their function
- Gather practical experience in the operation of the FDF system
- Gain basic knowledge about maintenance and repairs



Content

- Theoretical information about the function of the FDF system and its components
- Basics on the operation of the FDF system
- Extensive practical exercises on and with the FDF system



Recommended previous knowledge

- None





Flow Drilling Screwing

Expert Training FDF Flow Drilling Screwing



Target group

This training is aimed at maintenance personnel and process experts who perform advanced operating steps and parameter optimization on the system.



What's in it for you?

During this course, you'll learn how to:

- Understand the process comprehensively
- Acquire profound knowledge of system structure and components
- Perform maintenance and repairs on the FDF system



Content

- Theoretical part on system components and functionality
- Maintenance and repair
- Extensive practical exercises on each individual component of the FDF system



Recommended previous knowledge

- None

Order Number

EC004002

Location

IAS Geretsried or customer premises

Duration

3 days

Number of participants

Max. 6

Language

- German
- English
- Additional languages available upon request

Training Methods

- Tutorials
- Group work
- Hands-on exercises

The following equipment is required for on-site training at the customer:

- Operable system to train on
- Projector/ screen
- Flip chart/white board

Flow Drilling Screwing

Maintenance Training FDF Flow Drilling Screwing



Target group

This training is aimed at maintenance personnel who carry out the maintenance on the FDF systems.



What's in it for you?

During this course, you'll learn how to:

- Process basics
- In-depth knowledge about the structure and function of all system components
- Carry out maintenance and repair on the FDF system



Content

- Theoretical part on system components and functionality
- Maintenance and repair
- Extensive practical exercises on each individual component of the FDF system



Recommended previous knowledge

- None



Order Number

EC004003

Location

IAS Geretsried or customer premises

Duration

2 days

Number of participants

Max. 6

Language

- German
- English
- Additional languages available upon request

Training Methods

- Tutorials
- Group work
- Hands-on exercises

The following equipment is required for on-site training at the customer:

- Operable system to train on
- Projector/ screen
- Flip chart/white board

Flow Drilling Screwing

Joining Technology Workshop Flow Drilling Screwing



Target group

This training is aimed at maintenance personnel and process experts who perform advanced operating steps and parameter optimization on the system.



What's in it for you?

During this course, you'll learn how to:

- Estimate the quality of the joining point
- Create and evaluate a grinding image
- Perform parameter optimizations using the evaluation



Content

- Parameterization and creation of a joining point
- Verification of the joining point in the laboratory (micrograph preparation incl. evaluation)
- Parameter optimization



Previous knowledge

- EC040002 FDF Expert training on flow drilling screwing



Order Number

EC004004

Location

IAS Geretsried or customer premises

Duration

3 days

Number of participants

Max. 6

Language

- German
- English
- Additional languages available upon request

Training Methods

- Tutorials
- Group work
- Hands-on exercises

The following equipment is required for on-site training at the customer:

- Operable system to train on
- Projector/ screen
- Flip chart/white board



You can also use our other service offers:

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Your contact person: *Dominik Nüske*

In our repair shop we offer high-quality repairs with original spare parts – fast, easy and inexpensive.
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- + Certified engineers ensure the best quality
- + Calculable costs and time expenditure
- + Short throughput times

Please contact us for further information:

ias.repairshop@atlascopco.com
+49 7252 5560 - 4333

Atlas Copco Industrial Assembly Solutions
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Gewerbestr. 52
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Please contact us for further information:

ias.techsupport@atlascopco.com
+49 7252 5560 - 4222

Atlas Copco Industrial Assembly Solutions
Atlas Copco IAS GmbH
Gewerbestr. 52
75015 Bretten



Learn more about our range of services

IAS Technical Support

Your contact person: *Thorsten Karl*

Whether your equipment is currently in the "ramp-up phase", has been contributing to continuous production in your company for some time or you need assistance in troubleshooting – our technical support team is available to you as your professional contact partners in the quality that you have the right to expect.

Every month we process a large number of incident reports and thus ensure a fast and personal handling of your request.
Please contact us if you have any fault reports or questions about ADH equipment.

