

Seminar Programme 2023



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Boge Compressed Air Academy

Seminar Programme

BOGE Compressed Air Academy

Do you want to expand your knowledge on compressors and compressed air supply? Based on the motto "Gained from practice, for use in practice", our experienced trainers use practical examples and exercises to present and explain specialised, sector-specific content.

Effective compressed air management

This training course will provide instruction on the basics of compressed air technology as well as inform about the latest developments. A further focal point will be energy-saving options and the efficient operation of a compressed air station. We will take a look at the entire compressed air system and give numerous useful tips and tricks. This seminar is particularly suitable for people who have little or no experience of compressed air technology.

BOGE technical seminars

These seminars will teach you how to operate BOGE compressors and compressor stations in a safe and economically efficient way. They are aimed at the service employees of our partners, retailers and customers. We organise seminars on topics including (but not limited to) piston compressors, refrigerant dryers, oil-lubricated screw compressors, adsorption dryers, service management or the BOGE service. Participants can choose a basic or professional seminar depending on their level of prior knowledge.

Basic service seminars (1 day)

We provide you with basic knowledge. Among other things, you'll learn how to optimally adjust the system pressure, how to eliminate leaks quickly and what to look out for during maintenance intervals. Such knowledge has a high potential for development at a later stage. Ultimately, the overwhelming majority of unscheduled machine downtime occurs as a result of simple issues. We teach those responsible for the machines how to recognise these issues in a timely fashion and prevent failures or malfunctions.

Professional service seminars (2 days)

This advanced seminar teaches how to approach troubleshooting in a systematic way. As well as technical knowledge on complex compressed air systems and higher-level control, successful systematic troubleshooting requires a comprehensive range of methodological skills. Step one requires you to understand the processes taking place within the system or plant. In step two, you'll identify the affected function. In step three, you'll investigate which components are linked to this function and could therefore be the source of the issue. This seminar is aimed at



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servicing and repairs professionals wishing to acquire a detailed understanding of complex systems as well as of troubleshooting and error rectification.

BOGE individual seminars

The BOGE individual seminars are a tailor-made combination of the well-known seminar programme for effective compressed air management and the BOGE technical seminars. Date, time frame, venue and contents can be coordinated and defined. Our contact person in the field of seminar planning will support you in your selection with regard to concept, content and implementation.

Online seminars (45 – 90 min)

The online seminars represent individual parts of the various other seminar offerings and are independent of the BOGE technical seminars offering. These seminars are conducted live online by trainers. The content is mainly theoretical, describing and explaining situations in everyday work. In addition, this content can be one part of the face-to-face meetings within the framework of the hybrid seminars.

Hybrid seminars

These seminars are a combination of online seminars and seminars from the presence programme. It is possible to attend the theoretical content of the classroom seminars as an online seminar. The presence part of the seminars to operate and understand compressors, components and controls completes the learning content on site.

www.boge.de

We regularly adapt our program to suit your needs. Visit <u>https://www.boge.com/en/seminars</u> to find out about our current program of seminars. You will not only discover useful information about dates and the content of our training seminars, but will also be able to sign up for courses quickly and easily online.



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Basic Service Seminar (English)

Description	Compressor controls (1EC)
Learning opportunity	The participants of this seminar will be taught all the knowledge necessary to understand the functions of the BOGE compressor controls and handling by using the available technical documentation.
Target group	Service technicians, administrative service and product support personnel of our key partners and distributors who deal with customers in the aftermarket.
Content	 BOGE compressor controls Functions and tasks Naming and usage in different compressor types Design of different controls Functions of different controls based on the products base control (BASIC) focus control 2.0 Optional in consultation FOCUS RATIO Auto- / Ratio- / Supertronic
Requirements	Basic knowledge of design and function of compressors
Duration	1 day
Charge	-
Dates and locations	on appointment



Basic Service Seminar (English)

Agenda	Compressor controls (1EC)
09:00 hrs	Welcome and introduction to the course agenda Introduction of participants
09:15 hrs	BOGE compressor controlsDesign, functions and options
10:30 hrs	Break
11:00 hrs	BOGE compressor controls – base control (BASIC)Design, functions and handling
12:00 hrs	BOGE compressor controls – focus control 2.0Design, functions and handling
12:45 hrs	Lunch-Break
13:30 hrs	BOGE compressor controls – focus control 2.0Design, functions and handling
15:00 hrs	Break
15:30 hrs	Optional in consultation
16:15 hrs	 BOGE compressor controls: FOCUS, RATIO and Auto- / Ratio- / Supertronic Design, functions and handling
	2. Factory tour

17:30 hrs End of seminar



Basic Service Seminar (English)

Description	Screw compressors with oil-injection cooling (1ES)
Learning Opportunities	The participants of this seminar will get all necessary skills using the availa- ble technical documentations, in order to maintenance oil injected BOGE screw compressors on their own.
Target group	Service technicians, administrative service and product support personnel of our key partners and distributors who have to maintain BOGE screw com- pressors with oil-injection cooling.
Content	Fundamentals of compressed air
	 Design and Function of BOGE screw compressors with oil-injection cooling
	 Basics of compressor controls base control (BASIC) focus control 2.0
	 Maintenance work on BOGE screw compressors with oil-injection cooling (S and C series)
Requirements	Technical understanding of machines, and knowledge of the operation of machines and work on machines.
Duration	1 day
Charge	-
Dates and locations	on appointment



Basic Service Seminar (English)

Agenda	Screw compressors with oil-injection cooling (1ES)
Day 1	
09:00 hrs	Welcome and introduction to the course agenda, Introduction of participants
09:20 hrs	BOGE screw compressors with oil-injection coolingProduct range overview and type code
09:40 hrs	Fundamentals of compressed air
10:30 hrs	Break
11:00 hrs	 BOGE screw compressors with oil-injection cooling Design and function of single components (S and C series)
12:45 hrs	Lunch-Break
13:30 hrs	Compressor controls - base control and focus control 2.0 Design Function Handling
15:00 hrs	Break
15:30 hrs	 BOGE screw compressors with oil-injection cooling Maintenance work on (Practical part in the trainings centre)
17:30 hrs	End of the seminar

In case the seminar will take place at BOGE headquarters, and if time-wise possible we will make a factory tour for those who are interested.



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Basic Service Seminar (English)

Description Piston compressors (1EP)

Learning The participants of this seminar will get all necessary skills using the available technical documentations, in order to maintain BOGE oil lubricated and oil-free piston compressors.

Target group Service technicians, administrative service and product support personnel of our key partners and distributors who have to maintain oil injected BOGE screw compressors.

Content

- · Fundamentals of compressed air
- Design and Function of BOGE oil lubricated piston compressors
- Design and Function of BOGE oil-free piston compressors
- Basics of compressor controls
 - base control (BASIC) / RATIO
 - FOCUS
 - focus control 2.0
- Maintenance work on BOGE piston (SC and PO...L series)

Requirements Technical understanding of machines, and knowledge of the operation of machines and work on machines.

Duration1 dayCharge-Dates andon appointmentlocations-



Basic Service Seminar (English)

Agenda	Piston compressors (1EP)
Day 1	
09:00 hrs	Welcome and introduction to the course agenda, Introduction of participants
09:20 hrs	Overview of product range and type code of BOGE piston compressors
09:35 hrs	Fundamentals of compressed air
10:30 hrs	Break
11:00 hrs	Design and function of single components BOGE oil lubricated and oil-free piston compressors (SC and POL series)
12:45 hrs	Lunch-Break
13:30 hrs	Piston compressor controls: base control/RATIO, FOCUS and focus control 2.0 • Design • Function • Handling
14:30 hrs	Maintenance work on BOGE piston compressors (Practical part in the trainings centre)
15:00 hrs	Break
15:30 hrs	Maintenance work on BOGE piston compressors (Practical part in the trainings centre)
17:00 hrs	End of the seminar

In case the seminar will take place at BOGE headquarters, and if time-wise possible we will make a factory tour for those who are interested.



Basic Service Seminar (English)

Description	Compressed Air Treatment (1ET)
Learning opportunity	The participants of this seminar will get all necessary skills using the availa- ble technical documentations, in order to service and complete maintain for all kinds of BOGE air treatment solutions on their own.
Target group	Service technicians, administrative service and product support personnel of our key partners and distributors that have to maintenance BOGE air treatment equipment.
Content	 Why is it necessary to do air treatment? Design and function of adsorption dryers Design and function of refrigerant dryers Design and function of further components of air treatment (Filtration, condensate drains, condensate separators) Maintenance jobs at BOGE compressed air treatment components
Requirements	Technical understanding of machines, and knowledge of the operation of machines and work on machines.
Duration	1 day
Charge	-
Dates and locations	on appointment



Basic Service Seminar (English)

Agenda	Compressed Air Treatment (1ET)
Day 1	
09:00 hrs	Welcome and introduction to the course agenda, Introduction of participants
09:15 hrs	Why compressed air must be treated?
10:00 hrs	Refrigerant dryersDesign and function
10:30 hrs	Break
11:00 hrs	Adsorption dryersDesign and function of
11:45 hrs	 BOGE compressed air treatment components Design and function Filtration condensate drains condensate separators
12:45 hrs	Lunch-Break
13:30 hrs	BOGE compressed air treatment componentsRegular maintenance work
15:00 hrs	Break
15:30 hrs	 BOGE compressed air treatment components Regular maintenance work (Practical part in the trainings centre)
17:30 hrs	End of the seminar

In case the seminar will take place at BOGE headquarters, and if time-wise possible we will make a factory tour for those who are interested.



Basic Service Seminar (English)

Description	Oil-free scroll compressors (1EO1)
Learning opportunities	The participants of this seminar will get all necessary skills using the availa- ble technical documentations, in order to maintain oil-free BOGE scroll com- pressors.
Target group	Service technicians, administrative service and product support personnel of our key partners and distributors who have to maintain oil-free BOGE scroll compressors.
Content	Scroll compressors
	Fundamentals of compressed air
	 Design and Function of BOGE oil-free scroll compressors
	Basics of compressor controls
	focus control 2.0
	 Regular maintenance work on BOGE oil-free scroll compressors (EO series)
	 Maintenance work on BOGE oil-free scroll compressors (practical part)
Requirements	Technical understanding of machines, and knowledge of the operation of machines and work on machines.
Duration	1 day
Charge	-
Dates and locations	on appointment



Basic Service Seminar (English)

Agenda	Oil-free scroll compressors (1EO1)
Day 1	
09:00 hrs	Welcome and introduction to the course agenda, Introduction of participants
09:20 hrs	BOGE oil-free scroll compressorsProduct range overview and type code
09:35 hrs	Fundamentals of compressed air
10:30 hrs	Break
11:00 hrs	BOGE oil-free scroll compressorsDesign and function of single components
12:00 hrs	Oil-free scroll compressors - Compressor control • focus control 2.0
12:45 hrs	Lunch-Break
13:30 hrs	 BOGE oil-free scroll compressors Maintenance work (Practical part in the trainings centre)
14:30 hrs	Break
15:00 hrs	 BOGE oil-free scroll compressors Maintenance work (Practical part in the trainings centre)
16:30 hrs	End of the seminar

In case the seminar will take place at BOGE headquarters, and if time-wise possible we will make a factory tour for those who are interested.



Basic Service Seminar (English)

Description	Oil free crew compressors (1EO2)
Learning Opportunities	The participants of this seminar will get all necessary skills using the availa- ble technical documentations, in order to maintenance BOGE oil free screw compressors on their own.
Target group	Service technicians, administrative service and product support personnel of our key partners and distributors who have to maintain BOGE screw com- pressors with oil-injection cooling.
Content	 Function and components of oil free screw compressors Regular maintenance work on oil free screw compressors Parameterisation of the compressor controller Options and add-ons
Requirements	Technical understanding of machines, and knowledge of the operation of machines and work on machines.
Duration	1 day
Charge	-
Dates and locations	on appointment



Basic Service Seminar (English)

Agenda	Oil free screw compressors (1EO2)
Day 1	
09:00 hrs	Welcome and introduction to the course agenda, Introduction of participants
09:20 hrs	Why oil free compressed air?
09:40 hrs	Product overview
09:50 hrs	 BOGE oil free screw compressors Design and function of single components (SO series)
10:30 hrs	Break
11:00 hrs	 BOGE oil free screw compressors Design and function of single components (SO series)
12:45 hrs	Lunch-Break
13:30 hrs	Compressor control - PRIME Design Function Handling
15:00 hrs	Break
15:30 hrs	 BOGE oil free screw compressors Maintenance work on BOGE oil free screw compressors (SO series) (Practical part in the trainings centre)
17:30 hrs	End of the seminar

In case the seminar will take place at BOGE headquarters, and if time-wise possible we will make a factory tour for those who are interested.



Basic Service Seminar (English)

Description	Compressed Air Treatment (1EG)
Learning opportunity	The participants of this seminar will get all necessary skills using the availa- ble technical documentations, in order to service and complete maintain BOGE special gas generators on their own.
Target group	Service technicians, administrative service and product support personnel of our key partners and distributors that have to maintenance BOGE special gas generators.
Content	 Design and Function of BOGE special gas generators Basics of generator controls Regular maintenance work on BOGE special gas generators (N2 P and OP series)
Requirements	Technical understanding of machines, and knowledge of the operation of machines and work on machines.
Duration	1 day
Charge	-
Dates and locations	on appointment



Basic Service Seminar (English)

Agenda	Special gas generators (1EG)
Agenda	Special gas generators (TEG)
Day 1	
09:00 hrs	Welcome and introduction to the course agenda, Introduction of participants
09:15 hrs	Product range overview
09:30 hrs	Fundamentals of compressed air
10:30 hrs	Break
11:00 hrs	BOGE special gas generatorsDesign and function of single components
12:00 hrs	BOGE special gas generatorsControl
12:45 hrs	Lunch-Break
13:30 hrs	BOGE special gas generators (N2 P and OP series)Regular maintenance work
15:00 hrs	Break
15:30 hrs	 BOGE special gas generators (N2 P and OP series) Regular maintenance work (Practical part in the trainings centre)
17:30 hrs	End of the seminar

In case the seminar will take place at BOGE headquarters, and if time-wise possible we will make a factory tour for those who are interested.



Professional Service Seminar (English)

Description	Controls (2EC1)
Learning opportunities	The participants in this seminar will get all necessary skills, to do a system- atic commissioning and optimizing on BOGE compressed air management systems.
Target group	Experienced service technician of our partners, distributors and customers, who will be tasked to commission and/or optimizing a BOGE compressor air management system.
Content	 BOGE Compressor Management Design and function focus control 2.0 – base load switch function airtelligence plus airtelligence provis 3 (airtelligence provis 2.0 – if required) Systematic commissioning of compressor management systems Comprehensive knowledge of compressor control parameterization, to connect compressor management systems. Software update How to build an efficient compressed air station
Requirements	Technical knowledge on machines as well as knowledge about function and operation on machines.
Duration	2 days
Charge	-
Dates and locations	on appointment



Professional Service Seminar (English)

Agenda	Controls (2EC1)
Tag 1	
09:00 hrs	Welcome and introduction to the course agenda, Introduction of participants
09:15 hrs	Compressor control – focus control 2.0 Design Function
10:30 hrs	Coffee break
11:00 hrs	Compressor control – focus control 2.0 Function Software update
12:45 hrs	Lunch break
13:30 hrs	Compressor control – focus control 2.0 Base load switch (BLS) Function Commissioning
15:00 hrs	Coffee break
15:30 hrs	 Compressor management control – airtelligence plus Modbus Interface Module Bus connection / Network
17:00 hrs	End of seminar day 1

In case the seminar will take place at BOGE headquarters, and if time-wise possible we will make a factory tour for those who are interested.



Professional Service Seminar (English)

Agenda	Controls (2EC1)
Tag 2	
09:00 hrs	How to build an efficient compressed air station
10:00 hrs	Compressor management control – airtelligence provis 3 Design Function
10:30 hrs	Coffee break
11:00 hrs	 Compressor management control – airtelligence provis 3 Commissioning Connection and parameterization of compressor controls and equipped interfaces Connection and parameterization of BOGE compressed air management controls
12:45 hrs	Lunch break
13:30 hrs	 Compressor management control – airtelligence provis 3 Troubleshooting on compressor management controls
15:00 hrs	Coffee break
15:30 hrs	 Compressor management control – airtelligence provis 3 Troubleshooting on compressor management controls Software update
16:30 hrs	How to build an efficient compressed air station
17:00 hrs	End of seminar



Professional Service Seminar (English)

Description	Management control – programming and monitoring (2EC2)
Learning opportunities	The participants in this seminar will get all necessary skills, to develop and program independently in software module airlogic. Furthermore the application cases and commissioning of remote monitoring system BOGE connect.
Target group	Experienced service technician of our partners, distributors and customers, who will be tasked to commission and/or optimizing of BOGE compressor management system.
Content	 airtelligence provis 2.0 Software module – airlogic Design and function Development of formulas Application example (practical part) airtelligence provis 2.0 option – pro-FU Design and function Application example (practical part) Remote monitoring system – BOGE connect Application / Commissioning
Requirements	Good working knowledge of and experience with management control airtel- ligence provis 2.0 and/or airtelligence provis 3 or participation in Professional Service seminar controls (2EC1)
Duration	1 day
Charge	-
Dates and locations	on appointment



Professional Service Seminar (English)

Agenda	Controls (2EC2)
Day 1	
09:00 hrs	Welcome and introduction to the course agenda, Introduction of participants
09:15 hrs	airtelligence provis 2.0 and 3 – Software module airlogic Design and function
10:15 hrs	airtelligence provis 2.0 and 3 – Option pro-FU Design and function
10:30 hrs	Coffee break
11:00 hrs	 airtelligence provis 2.0 and 3 – Option pro-FU Practical part in Trainings Center
11:45 hrs	airtelligence provis 2.0 and 3 – Software module airlogicDesign and handling
12:45 hrs	Lunch break
13:30 hrs	 airtelligence provis 2.0 and 3 – Software module airlogic Workshop for formula development
14:30 hrs	Coffee break
14:45 hrs	 airtelligence provis 2.0 and 3 – Software module airlogic Programming of developed formulas
15:45 hrs	Coffee break
16:00 hrs	 Remote monitoring system – BOGE connect Application, design and function Commissioning
17:00 hrs	End of seminar



Professional Service Seminar (English)

Description	Screw compressors with oil-injection cooling (2ES)
Learning opportunities	The participants of this seminar will get all the necessary skills for the sys- tematic approach to doing troubleshooting and fault correction. This includes extensive methodological skills as well as detailed understand- ing of complex machines and controls.
Target group	Experienced service technicians, BOGE administrative service and product support personnel of key partners and distributors who are involved in the maintenance of oil injected BOGE screw compressors.
Content	 Configuration of oil injected screw compressor controls (base control and focus control 2.0)
	 Commissioning of oil injected screw compressors
	 Fault analysis of oil injected screw compressors
	Troubleshooting and repair of screw compressors with oil-injection cooling
Requirements	 Knowledge of design and functions of BOGE compressor controls BOGE screw compressors with oil-injection cooling
	 Experience with Handling of BOGE compressor controls Maintenance of BOGE screw compressors with oil-injection cooling
	(or previous participation in e.g.: Basic Service Seminar screw compressors with oil injection cooling)
Duration	2 days
Charge	-
Dates and locations	on appointment



Professional Service Seminar (English)

Agenda	Screw compressors with oil-injection cooling (2ES)
Day 1	
09:00 hrs	Welcome and introduction to the course agenda, Introduction of participants
09:20 hrs	Product overview BOGE screw compressors with oil-injection cooling
10:30 hrs	Break
11:00 hrs	 Compressor controls – base control and focus control 2.0 Design, function and handling
12:45 hrs	Lunch-Break
13:30 hrs	 Compressor controls – base control and focus control 2.0 Function and setup of base load switch
15:00 hrs	Break
15:30 hrs	 Compressor controls – base control and focus control 2.0 Setup of a base load switch Software flashing
17:00 hrs	End of the seminar day

In case the seminar will take place at BOGE headquarters, and if time-wise possible we will make a factory tour for those who are interested.



Professional Service Seminar (English)

Agenda	Screw compressors with oil-injection cooling (2ES)
Day 2	
09:00 hrs	Fundamentals of compressed air
09:45 hrs	Compressor room
10:30 hrs	Break
11:00 hrs	 BOGE screw compressors with oil-injection cooling – Options Frequency control BLUEKAT Heat recovery
12:45 hrs	Lunch-Break
13:30 hrs	Installation and commissioning of screw compressors with oil-injection cooling
14:15 hrs	 BOGE screw compressors with oil-injection cooling Fault determination and localisation (electrical and mechanical)
15:00 hrs	Break
15:30 hrs	 BOGE screw compressors with oil-injection cooling Fault determination and localisation (electrical and mechanical)
17:00 hrs	End of the seminar



Professional Service Seminar (English)

Description	Piston compressors (2EP)
Learning opportunities	The participants of this seminar will get all the necessary skills for the sys- tematic approach to doing troubleshooting and fault correction. This includes extensive methodological skills as well as detailed understand- ing of complex machines and controls.
Target group	Experienced service technicians, BOGE administrative service and product support personnel of key partners and distributors who are involved in the maintenance of oil injected BOGE screw compressors.
Content	Fault analysis of oil-lubricated and oil-free piston compressors
	 Configuration of piston compressor controls base control, focus control 2.0
	• Troubleshooting and repair of screw compressors with oil-injection cooling
	Commissioning of piston compressors
Requirements	 Knowledge of design and functions of BOGE compressor controls BOGE oil-lubricated piston compressors
	 Experience with Handling of BOGE compressor controls Maintenance of BOGE oil-lubricated piston compressors
	(or previous participation in e.g.: Basic Service Seminar piston compressors)
Duration	2 days
Charge	-
Dates and locations	on appointment



Professional Service Seminar (English)

Agenda	Piston compressors (2EP)
Day 1	
09:00 hrs	Welcome and introduction to the course agenda, Introduction of participants
09:20 hrs	product overview of BOGE piston compressors
10:30 hrs	Break
11:00 hrs	Compressor controls for – piston compressors: base control and focus control 2.0 • Design, function and handling
12:45 hrs	Lunch-Break
13:30 hrs	Compressor controls for – piston compressors: base control and focus control 2.0 • Function and setup of base load switch
15:00 hrs	Break
15:30 hrs	Compressor controls for – piston compressors: base control and focus control 2.0 • Setup of a base load switch and Software flashing
17:00 hrs	End of the seminar day

In case the seminar will take place at BOGE headquarters, and if time-wise possible we will make a factory tour for those who are interested.



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Professional Service Seminar (English)

Agenda	Piston compressors (2EP)
Day 2	
09:00 hrs	Fundamentals of compressed air
09:45 hrs	Compressor room
10:30 hrs	Break
11:00 hrs	Oil-lubricated and oil-free piston compressorsInstallation and commissioning
12:45 hrs	Lunch-Break
13:30 hrs	Oil-lubricated and oil-free piston compressors – OptionsBooster, FlexPET
14:15 hrs	 Oil-lubricated and oil-free piston compressors Fault determination and localisation on BOGE compressors (electrical and mechanical)
15:00 hrs	Break
15:30 hrs	 Oil-lubricated and oil-free piston compressors Fault determination and localisation on BOGE compressors (electrical and mechanical)
17:00 hrs	End of the seminar



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Professional Service Seminar (English)

Description	Compressed Air Treatment (2ET)
Learning opportunities	The participants in this seminar will get all necessary knowledge imparted that are necessary for a systematic troubleshooting at BOGE refrigeration dryers, adsorption dryers, DAV and BOGE converters. This includes a detailed understanding of complex machines and controls and extensive methodically skills.
Target group	Service technicians, administrative service and product support personnel of our key partners and distributors which are entrusted with the troubleshoot- ing at BOGE air-treatment components.
Content	 BOGE refrigeration dryers (DS(-2), DH) Function of refrigerant control components Dryer controls Fault messages with analytical Fault determination and localisation
	 Vacuum warm regenerated adsorption dryer (DAV(-2)) Structure, function and maintenance work Dryer control Fault messages with analytical Fault determination and localisation
	 BOGE Converter (BC) Structure, function and maintenance work Dryer control Fault messages with analytical Fault determination and localisation
	 BOGE special gas generators (N2 P(E) / OP(E)) Structure and function
Requirements	 Knowledge of design and functions of BOGE dryer controls BOGE refrigeration dryer BOGE adsorption dryer
	 Experience with Handling of BOGE dryer controls Maintenance of BOGE refrigeration dryer and adsorption dryers
	(or previous participation in e.g.:

(or previous participation in e.g.: Basic Service Seminar Compressed Air Treatment)



Professional Service Seminar (English)

Duration2 daysCharge-

Dates and locations

on appointment



Professional Service Seminar (English)

Agenda	Compressed Air Treatment (2ET)
Day 1	
09:00 hrs	Welcome and introduction to the course agenda, Introduction of participants
09:15 hrs	 BOGE refrigerant dryers – DS(-2), DH series Structure and function of refrigerant control components
10:00 hrs	 BOGE refrigerant dryers – DS(-2), DH series Structure and function of refrigerant control components Fault determination and localisation
10:30 hrs	Break
11:00 hrs	 BOGE refrigerant dryers – DS(-2), DH series Structure and function of refrigerant control components Fault determination and localisation
12:45 hrs	Lunch-Break
13:30 hrs	 BOGE refrigerant dryers – DB, DR, DX and (-2), DH series Fault lists Fault determination and localisation
15:00 hrs	Break
15:30 hrs	BOGE Adsorptions dryer – DAV(-2)Structure and function
17:00 hrs	End of the seminar day

In case the seminar will take place at BOGE headquarters, and if time-wise possible we will make a factory tour for those who are interested.



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Professional Service Seminar (English)

Agenda	Compressed Air Treatment (2ET)
Day 2	
09:00 hrs	BOGE Adsorption dryer control DAV(-2)Structure and function
10:30 hrs	Break
11:00 hrs	BOGE Adsorption dryer DAV(-2)MaintenanceFault determination and localisation
12:45 hrs	Lunch-Break
13:30 hrs	BOGE converter – BCStructure and function
15:00 hrs	Break
15:30 hrs	BOGE converter – BCMaintenanceFault determination and localisation
16:30 hrs	 BOGE special gas generators – N…P(E) / O…P(E) Structure and function
17:00 hrs	End of the seminar



Professional Service Seminar (English)

Description	BOGE-Service (2EE1)
Learning opportunities	The participants in this seminar will be taught all the knowledge necessary to do a systematic troubleshooting and - recovery at BOGE compressors. Furthermore to do an independent commissioning is obtained after the de- faults which were necessary for the bestcair warranty extension program. (not available in all countries) The seminar prepares for the examination to the certified BOGE service technician. (necessary for bestcair)
Target group	Service technicians, administrative service and product support personnel of our key partners and distributors that deal with compressor servicing.
Content	Commissioning of BOGE compressors
	 Introduction of bestcair warranty program
	• Design, function, application, layout and maintenance on compressed air
	preparation components
	 Design, functions, handling and options of BOGE compressor controls
	 Systematically troubleshooting at BOGE compressors
Requirements	 Knowledge of design and functions of BOGE compressor controls BOGE screw compressors with oil-injection cooling
	 Experience with Handling of BOGE compressor controls Maintenance of BOGE screw compressors with oil-injection cooling
	(or previous participation in e.g.: Basic Service Seminar screw compressors with oil injection cooling)
	2 days
Charge	-
Dates and locations	31 May – 01 June 2023 Bielefeld 11 – 12 July 2023 Bielefeld



Professional Service Seminar (English)

Agenda	BOGE-Service (2EE1)
Day 1	
09:00 hrs	Welcome and introduction to the course agenda, Introduction of participants
09:15 hrs	 Bestcair – Warranty program Current guidelines for maintenance of BOGE screw compressors with oil-injection cooling Bestcair – Warranty terms
10:30 hrs	Break
11:00 hrs	Compressor controls – focus control 2.0Design, function and handling
12:45 hrs	Lunch-Break
13:30 hrs	Compressor controls – focus control 2.0 Setup of a base load switch (BLS) Software installation (Software flashing)
15:00 hrs	Break
15:30 hrs	 Compressor controls – focus control 2.0 Setup of a base load switch (BLS)
16:30 hrs	Factory tour
17:30 hrs	End of the seminar day



Professional Service Seminar (English)

Agenda	BOGE-Service (2EE1)
Day 2	
09:00 hrs	Fundamentals of compressed air
10:00 hrs	Compressor room
10:45 hrs	Break
11:15 hrs	Compressed air treatmentDesign and functionApplication and layout criteria
12:45 hrs	Lunch-Break
13:30 hrs	 Screw compressors with oil-injection – bestcair warranty program Installation and commissioning according bestcair requirements BOGE connect
14:30 hrs	Break
15:00 hrs	Fault determination and localisation on BOGE compressors (electrical and mechanical)
16:30 hrs	Examination of Re Certification (bestcair)Requires passed certification (2EE2)
17:30 hrs	End of the seminar



Professional Service Seminar (English)

Description	Examination "Certified BOGE technician" (2EE2)
Learning opportunities	Certification of a service technician of our key partners or distributors as requirement for attendance with bestcair extended warranty program and obtaining the service qualification.
Target group	Experienced service technicians of our key partners and distributors.
Content	Basics of compressed air
	 Expanded knowledge of design, function, commissioning and mainte- nance of oil lubricated and oil free piston compressors
	 Expanded knowledge of design, function, commissioning and mainte- nance of oil injected screw compressors
	 Expanded knowledge of design, function, options and software-flashing of compressor controller
	 Design, function, application and layout of compressed air treatment
	 Commissioning and maintenance guide lines of bestcair extended war- ranty program
Requirements	 Technical knowledge of design, function, application of piston compressors and screw compressors with associated controller and compressed air treatment Guide lines of bestcair extended warranty program (attendance with "professional seminar service")
Duration	1 day
Charge	-
Dates and locations	02 June2023Bielefeld13 July2023Bielefeld



Professional Service Seminar (English)

Agenda	Examination "Certified BOGE technician" (2EE2)
09:00 hrs	Welcome and introduction to the examination agenda
09:30 hrs	Written examination
10:30 hrs	Break
11:00 hrs	Practical and oral examination (approx. 20 - 30 min per participant) Settings and troubleshooting at different compressors, Explanation of facts and situations
12:45 hrs	Lunch-Break
13:30 hrs	Practical and oral examination (approx. 20 - 30 min per participant) Settings and troubleshooting at different compressors, Explanation of facts and situations
15:30 hrs	Break
16:00 hrs	Practical and oral examination (approx. 20 - 30 min per participant) Settings and troubleshooting at different compressors, Explanation of facts and situations
17:00 hrs	End of examination

The participant will get their examination results announced direct after participation.



Organizational matters

Boge Compressed Air Academy

Accommodation/recommended hotels

Mercure Hotel Bielefeld Am Johannisberg 5 33615 Bielefeld Tel: 0521/92380 mail: <u>HB0Q9@accor.com</u> Internet: <u>http://www.mercure.com/de/city/hotels-bielefeld-v0429.shtml</u>

Please book rooms yourselves.

Registration

You can also register for your seminar quickly and easily at our website: <u>https://www.boge.com/en/seminars</u>

BOGE Druckluftsysteme

GmbH & Co. KG

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General Booking and participation condition

Boge Compressed Air Academy

Cartel Law

Please note that on all events of the BOGE Group the compliance regulations of the cartel law must be respected.

Amongst others the European and national cartel law prohibits:

- To discuss competitive prices or discounts during seminars
- Exchange of other sensitive competitive company information
- Arrangement of industry-corresponding behaviour patterns respectively resolutions or agreements
- Arrangement of company strategies and future market behaviour

Please learn more about our "Code of Conduct" under https://www.boge.com/sites/row/files/coc_customer.pdf

Consulting service and registration

Save your participation by an early registration. There are only limited seminar places available and registrations will be considered according to the chronological order of registrations. In case of overbooking we will do our best to offer you an adequate alternative date. All seminar announcements on our website at https://www.boge.com/en/seminars are not binding

and only describe a request to submit an offer.

Order confirmation

We confirm your bookings by EMail.

Right of withdrawal

You are entitled to name another suitable substitute participant for the booked seminar should you for instance not be able to attend the seminar yourself. The substitute participant must be linguistically and professionally suitable for this seminar.

The rebooking of a participant for a new appointed day or a change of a seminar participant is free of charge.

A cancellation is free of charge if we receive the cancellation latest 10 working days prior to the seminar. After that or in case of no-show we reserve the right to charge 50 percent of the seminar fee.

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General Booking and participation condition

Boge Compressed Air Academy

Deliverables

The BOGE trainers conduct their deliverables according to the released agendas in case no individual agenda has been agreed in written. During the course of the seminar it is possible that not all scheduled seminar contents may be imparted for various reasons. We recommend that you study yourself intensively with the seminar documents after the seminar. It is essential for achievement of learning goals that the participant is professionally and linguistically suitable for the seminar. The participants receive their seminar documents according the seminar top-ics and learning goals. The contents stated upon conclusion of the contract shall apply.

Seminar Fees

The seminar prices do not include VAT at the statutory rate and, unless otherwise agreed in writing, include the seminar fees, the seminar documents as well as lunch and drinks during breaks during the event. Unless other payment terms are agreed the fees will be invoiced after the seminar to be payable within 30 days after date of invoice.

It is not possible to claim a reimbursement because of incompletely used deliverables.

Travel expenses (e.g. rental car, fuel costs, accommodation, taxi, daily allowance, etc.) are borne by the seminar participant respectively customer.

Liabilities

BOGE is liable for violation of contractual and non-contractual obligations according to the legal regulations unless subsequent provisions stipulated.

For whatever legal reason BOGE is liable in case of malice or severe negligence.

In case of simple carelessness liability only apply to damages arising from injury of life, of the body or health for violation of an essential contractual obligation.

Essential contractual obligations are obligations that facilitate the fulfilment of due performance of the contract anyway and on the fulfilment on which the customer regularly relies and may rely. In these cases, liability is limited to the foreseeable damage typical for the contract.

BOGE shall not be liable for damages resulting from the incorrect operation of equipment by personnel of the Customer who have previously attended a training course.

The attendance of a training or a seminar is no substitution for careful reading of the operation instructions and manuals of and attention to relevant devices.



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General Booking and participation condition

Boge Compressed Air Academy

Organisation, Cancellation

We reserve the right to modify contents of the event, to relocate and/or postpone seminars for instance in case of illness of a trainer, if the minimal number of participants is not reached or in case of force majeur.

In these cases as well as in cases of necessary changes of an event we will inform the participant resp. the customer as early as possible. In case of cancellation of a seminar we will do our best to offer a suitable alternative date. Should the participant resp. customer not be able to attend this alternative date he is not entitled to a refund. Except of cases of malice or severe negligence further claims are excluded.

Copyright

The seminar documents and logos are protected by copyright. It is prohibited to reproduce, modify, amend or use for commercial purposes seminar documents or fragments of seminar documents without explicit approval by BOGE.

Rights of use

The participant resp. Customer is entitled to use seminar documents made available. They may not be made available to third parties.

Confirmation of Attendance and Certificates

Participants receive a confirmation of attendance of a seminar. A certificate certifies a successfully passed test.

Privacy

We refer to our privacy statement on our website under following link: https://www.boge.com/sites/row/files/data_protection_statement.pdf

Partial ineffectiveness

Should individual terms of this contract between customer and contractor be or become inoperative, this will not affect the remaining terms of this contract. Instead of the ineffectual provision the law applies.

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COMPRESSED AIR SYSTEMS

General Booking and participation condition

Boge Compressed Air Academy

Place of Jurisdiction, governing Law

In this context we refer to our terms and conditions that are available under <u>https://www.boge.com/en/general-terms</u>

Only BOGE conditions apply. Differing, opposing or supplementary terms or customer's terms and conditions do not become part of the contract, even though BOGE does not explicitly vetoes.



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