



Seminar Program 2021



BOGE Compressed Air Academy

Seminar Program

Index of contents

Content	Abbr.	Page
Seminar Program Boge Compressed Air Academy.....	1
Basic service seminars		
Basic service seminar compressor controls.....	1EC.....	3
Basic service seminar screw compressors with oil-injection cooling.....	1ES.....	5
Basic service seminar piston compressors.....	1EP.....	7
Basic service seminar compressed air treatment.....	1ET.....	9
Basic service seminar oil-free scroll compressors.....	1EO1.....	11
Basic service seminar oil-free screw compressors.....	1EO2.....	13
Basic service seminar special gas generators.....	1EG.....	15
Professional service seminars		
Professional service seminar controls.....	2EC1.....	17
Professional service seminar programming and monitoring.....	2EC2.....	20
Professional service seminar screw compressors with oil injection cooling.....	2ES.....	22
Professional service seminar oil-free screw compressors.....	2EP.....	25
Professional service seminar compressed air treatment.....	2ET.....	28
Professional service seminar BOGE-Service.....	2EE1.....	32
Examination certified BOGE service technician.....	2EE2.....	35

BOGE Compressed Air Academy

Seminar Program

Index of contents

Organizational matters	37
General Terms and Conditions of Registration and Participation....	38

BOGE Compressed Air Academy

BOGE Compressed Air Academy

Do you want to expand your knowledge on compressors and compressed air supply? Steered by 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 also 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.

www.boge.de

We regularly adapt our program to suit your needs. Visit www.boge.de 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.

BOGE Compressed Air Academy

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	<p>BOGE compressor controls</p> <ul style="list-style-type: none">• Functions and tasks• Naming and usage in different compressor types• Design of different controls• Functions of different controls• based on the products<ul style="list-style-type: none">- base control (BASIC)- focus control 2.0 <p>Optional in consultation</p> <ul style="list-style-type: none">• FOCUS• RATIO• Auto- / Ratio- / Supertronic
Requirements	Basic knowledge of design and function of compressors
Duration	1 day
Charge	-
Dates and locations	on appointment

BOGE Compressed Air Academy

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 controls <ul style="list-style-type: none">• Design, functions and options
10:30 hrs	Break
11:00 hrs	BOGE compressor controls – base control (BASIC) <ul style="list-style-type: none">• Design, functions and handling
12:00 hrs	BOGE compressor controls – focus control 2.0 <ul style="list-style-type: none">• Design, functions and handling
12:45 hrs	Lunch-Break
13:30 hrs	BOGE compressor controls – focus control 2.0 <ul style="list-style-type: none">• Design, functions and handling
15:00 hrs	Break
15:30 hrs	Optional in consultation
16:15 hrs	1. BOGE compressor controls: FOCUS, RATIO and Auto- / Ratio- / Supertronic <ul style="list-style-type: none">• Design, functions and handling 2. Factory tour
17:30 hrs	End of 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.

BOGE Compressed Air Academy

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 available 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 compressors with oil-injection cooling.
Content	<ul style="list-style-type: none">• Fundamentals of compressed air• Design and Function of BOGE screw compressors with oil-injection cooling• Basics of compressor controls<ul style="list-style-type: none">– 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

BOGE Compressed Air Academy

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 cooling
- Product 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.

BOGE Compressed Air Academy

Basic Service Seminar (English)

Description	Piston compressors (1EP)
Learning opportunity	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	<ul style="list-style-type: none">• 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<ul style="list-style-type: none">– 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.
Duration	1 day
Charge	-
Dates and locations	on appointment

BOGE Compressed Air Academy

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 PO...L series)
12:45 hrs	Lunch-Break
13:30 hrs	Piston compressor controls: base control/RATIO, FOCUS and focus control 2.0 <ul style="list-style-type: none">• 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.

BOGE Compressed Air Academy

Basic Service Seminar (English)

Description	Compressed Air Treatment (1ET)
Learning opportunity	The participants of this seminar will get all necessary skills using the available 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	<ul style="list-style-type: none">• 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

BOGE Compressed Air Academy

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 dryers <ul style="list-style-type: none">• Design and function
10:30 hrs	Break
11:00 hrs	Adsorption dryers <ul style="list-style-type: none">• Design and function of
11:45 hrs	BOGE compressed air treatment components <ul style="list-style-type: none">• Design and function<ul style="list-style-type: none">- Filtration- condensate drains- condensate separators
12:45 hrs	Lunch-Break
13:30 hrs	BOGE compressed air treatment components <ul style="list-style-type: none">• Regular maintenance work
15:00 hrs	Break
15:30 hrs	BOGE compressed air treatment components <ul style="list-style-type: none">• 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.

BOGE Compressed Air Academy

Basic Service Seminar (English)

Description	Oil-free scroll compressors (1E01)
Learning opportunities	The participants of this seminar will get all necessary skills using the available technical documentations, in order to maintain oil-free BOGE scroll compressors.
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	<p>Scroll compressors</p> <ul style="list-style-type: none">• 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

BOGE Compressed Air Academy

Basic Service Seminar (English)

Agenda	Oil-free scroll compressors (1E01)
Day 1	
09:00 hrs	Welcome and introduction to the course agenda, Introduction of participants
09:20 hrs	BOGE oil-free scroll compressors <ul style="list-style-type: none">• Product range overview and type code
09:35 hrs	Fundamentals of compressed air
10:30 hrs	Break
11:00 hrs	BOGE oil-free scroll compressors <ul style="list-style-type: none">• Design and function of single components
12:00 hrs	Oil-free scroll compressors - Compressor control <ul style="list-style-type: none">• focus control 2.0
12:45 hrs	Lunch-Break
13:30 hrs	BOGE oil-free scroll compressors <ul style="list-style-type: none">• Maintenance work (Practical part in the trainings centre)
14:30 hrs	Break
15:00 hrs	BOGE oil-free scroll compressors <ul style="list-style-type: none">• 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.

BOGE Compressed Air Academy

Basic Service Seminar (English)

Description	Oil free crew compressors (1E02)
Learning Opportunities	The participants of this seminar will get all necessary skills using the available 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 compressors with oil-injection cooling.
Content	<ul style="list-style-type: none">• 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

BOGE Compressed Air Academy

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 <ul style="list-style-type: none">• Design and function of single components (SO series)
10:30 hrs	Break
11:00 hrs	BOGE oil free screw compressors <ul style="list-style-type: none">• Design and function of single components (SO series)
12:45 hrs	Lunch-Break
13:30 hrs	Compressor control - PRIME <ul style="list-style-type: none">• Design• Function• Handling
15:00 hrs	Break
15:30 hrs	BOGE oil free screw compressors <ul style="list-style-type: none">• 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.

BOGE Compressed Air Academy

Basic Service Seminar (English)

Description	Compressed Air Treatment (1EG)
Learning opportunity	The participants of this seminar will get all necessary skills using the available 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	<ul style="list-style-type: none">• Design and Function of BOGE special gas generators• Basics of generator controls• Regular maintenance work on BOGE special gas generators (N...-2 P and O...P 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

BOGE Compressed Air Academy

Basic Service Seminar (English)

Agenda	Special gas generators (1EG)
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 generators <ul style="list-style-type: none">• Design and function of single components
12:00 hrs	BOGE special gas generators <ul style="list-style-type: none">• Control
12:45 hrs	Lunch-Break
13:30 hrs	BOGE special gas generators (N...-2 P and O...P series) <ul style="list-style-type: none">• Regular maintenance work
15:00 hrs	Break
15:30 hrs	BOGE special gas generators (N...-2 P and O...P series) <ul style="list-style-type: none">• 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.

BOGE Compressed Air Academy

Professional Service Seminar (English)

Description	Controls (2EC1)
Learning opportunities	The participants in this seminar will get all necessary skills, to do a systematic 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	<p>BOGE Compressor Management</p> <ul style="list-style-type: none">• Design and function<ul style="list-style-type: none">- 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

BOGE Compressed Air Academy

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 <ul style="list-style-type: none">• Design• Function
10:30 hrs	Coffee break
11:00 hrs	Compressor control – focus control 2.0 <ul style="list-style-type: none">• Function• Software update
12:45 hrs	Lunch break
13:30 hrs	Compressor control – focus control 2.0 <ul style="list-style-type: none">• Base load switch (BLS)• Function• Commissioning
15:00 hrs	Coffee break
15:30 hrs	Compressor management control – airtelligence plus <ul style="list-style-type: none">• 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.

BOGE Compressed Air Academy

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 <ul style="list-style-type: none">• Design• Function
10:30 hrs	Coffee break
11:00 hrs	Compressor management control – airtelligence provis 3 <ul style="list-style-type: none">• Commissioning<ul style="list-style-type: none">- 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 <ul style="list-style-type: none">• Troubleshooting on compressor management controls
15:00 hrs	Coffee break
15:30 hrs	Compressor management control – airtelligence provis 3 <ul style="list-style-type: none">• Troubleshooting on compressor management controls• Software update
16:30 hrs	How to build an efficient compressed air station
17:00 hrs	End of seminar

BOGE Compressed Air Academy

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	<p>airtelligence provis 2.0 Software module – airlogic</p> <ul style="list-style-type: none">• Design and function• Development of formulas• Application example (practical part) <p>airtelligence provis 2.0 option – pro-FU</p> <ul style="list-style-type: none">• Design and function• Application example (practical part) <p>Remote monitoring system – BOGE connect</p> <ul style="list-style-type: none">• Application / Commissioning
Requirements	Good working knowledge of and experience with management control airtelligence 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

BOGE Compressed Air Academy

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 <ul style="list-style-type: none">• Design and function
10:15 hrs	airtelligence provis 2.0 and 3 – Option pro-FU <ul style="list-style-type: none">• Design and function
10:30 hrs	Coffee break
11:00 hrs	airtelligence provis 2.0 and 3 – Option pro-FU <ul style="list-style-type: none">• Practical part in Trainings Center
11:45 hrs	airtelligence provis 2.0 and 3 – Software module airlogic <ul style="list-style-type: none">• Design and handling
12:45 hrs	Lunch break
13:30 hrs	airtelligence provis 2.0 and 3 – Software module airlogic <ul style="list-style-type: none">• Workshop for formula development
14:30 hrs	Coffee break
14:45 hrs	airtelligence provis 2.0 and 3 – Software module airlogic <ul style="list-style-type: none">• Programming of developed formulas
15:45 hrs	Coffee break
16:00 hrs	Remote monitoring system – BOGE connect <ul style="list-style-type: none">• Application, design and function• Commissioning
17:00 hrs	End of seminar

BOGE Compressed Air Academy

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 systematic approach to doing troubleshooting and fault correction. This includes extensive methodological skills as well as detailed understanding 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• Knowledge of design and functions of<ul style="list-style-type: none">- BOGE compressor controls- BOGE screw compressors with oil-injection cooling• Experience with<ul style="list-style-type: none">- Handling of BOGE compressor controls- Maintenance of BOGE screw compressors with oil-injection cooling <p>(or previous participation in e.g.: Basic Service Seminar screw compressors with oil injection cooling)</p>
Duration	2 days
Charge	-
Dates and locations	on appointment

BOGE Compressed Air Academy

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.

BOGE Compressed Air Academy

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

BOGE Compressed Air Academy

Professional Service Seminar (English)

Description	Piston compressors (2EP)
Learning opportunities	The participants of this seminar will get all the necessary skills for the systematic approach to doing troubleshooting and fault correction. This includes extensive methodological skills as well as detailed understanding 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• Knowledge of design and functions of<ul style="list-style-type: none">- BOGE compressor controls- BOGE oil-lubricated piston compressors• Experience with<ul style="list-style-type: none">- Handling of BOGE compressor controls- Maintenance of BOGE oil-lubricated piston compressors <p>(or previous participation in e.g.: Basic Service Seminar piston compressors)</p>
Duration	2 days
Charge	-
Dates and locations	on appointment

BOGE Compressed Air Academy

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.

BOGE Compressed Air Academy

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 compressors <ul style="list-style-type: none">• Installation and commissioning
12:45 hrs	Lunch-Break
13:30 hrs	Oil-lubricated and oil-free piston compressors – Options <ul style="list-style-type: none">• Booster, FlexPET
14:15 hrs	Oil-lubricated and oil-free piston compressors <ul style="list-style-type: none">• Fault determination and localisation on BOGE compressors (electrical and mechanical)
15:00 hrs	Break
15:30 hrs	Oil-lubricated and oil-free piston compressors <ul style="list-style-type: none">• Fault determination and localisation on BOGE compressors (electrical and mechanical)
17:00 hrs	End of the seminar

BOGE Compressed Air Academy

Professional Service Seminar (English)

Description	Compressed Air Treatment (2ET)
Learning opportunities	<p>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.</p> <p>This includes a detailed understanding of complex machines and controls and extensive methodically skills.</p>
Target group	<p>Service technicians, administrative service and product support personnel of our key partners and distributors which are entrusted with the troubleshooting at BOGE air-treatment components.</p>
Content	<ul style="list-style-type: none">• BOGE refrigeration dryers (DS(-2), DH)<ul style="list-style-type: none">- Function of refrigerant control components- Dryer controls- Fault messages with analytical Fault determination and localisation• Vacuum warm regenerated adsorption dryer (DAV(-2))<ul style="list-style-type: none">- Structure, function and maintenance work- Dryer control- Fault messages with analytical Fault determination and localisation• BOGE Converter (BC)<ul style="list-style-type: none">- Structure, function and maintenance work- Dryer control- Fault messages with analytical Fault determination and localisation• BOGE special gas generators (N...-2 P(E) / O...P(E))<ul style="list-style-type: none">- Structure and function
Requirements	<ul style="list-style-type: none">• Knowledge of design and functions of<ul style="list-style-type: none">- BOGE dryer controls- BOGE refrigeration dryer- BOGE adsorption dryer• Experience with<ul style="list-style-type: none">- Handling of BOGE dryer controls- Maintenance of BOGE refrigeration dryer and adsorption dryers <p>(or previous participation in e.g.: Basic Service Seminar Compressed Air Treatment)</p>

BOGE Compressed Air Academy

Professional Service Seminar (English)

Duration	2 days
Charge	-
Dates and locations	on appointment

BOGE Compressed Air Academy

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.

BOGE Compressed Air Academy

Professional Service Seminar (English)

Agenda	Compressed Air Treatment (2ET)
Day 2	
09:00 hrs	BOGE Adsorption dryer control DAV(-2) <ul style="list-style-type: none">• Structure and function
10:30 hrs	Break
11:00 hrs	BOGE Adsorption dryer DAV(-2) <ul style="list-style-type: none">• Maintenance• Fault determination and localisation
12:45 hrs	Lunch-Break
13:30 hrs	BOGE converter – BC <ul style="list-style-type: none">• Structure and function
15:00 hrs	Break
15:30 hrs	BOGE converter – BC <ul style="list-style-type: none">• Maintenance• Fault determination and localisation
16:30 hrs	BOGE special gas generators – N...P(E) / O...P(E) <ul style="list-style-type: none">• Structure and function
17:00 hrs	End of the seminar

BOGE Compressed Air Academy

Professional Service Seminar (English)

Description	BOGE-Service (2EE1)
Learning opportunities	<p>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 defaults which were necessary for the bestcair warranty extension program. (not available in all countries)</p> <p>The seminar prepares for the examination to the certified BOGE service technician. (necessary for bestcair)</p>
Target group	Service technicians, administrative service and product support personnel of our key partners and distributors that deal with compressor servicing.
Content	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• Knowledge of design and functions of<ul style="list-style-type: none">- BOGE compressor controls- BOGE screw compressors with oil-injection cooling• Experience with<ul style="list-style-type: none">- Handling of BOGE compressor controls- Maintenance of BOGE screw compressors with oil-injection cooling <p>(or previous participation in e.g.: Basic Service Seminar screw compressors with oil injection cooling)</p> <p>2 days</p>
Charge	-
Dates and locations	June 29 – 30 2021 Bielefeld October 12 – 13 2021 Bielefeld

BOGE Compressed Air Academy

Professional Service Seminar (English)

Agenda **BOGE servicing (2EE1)**

Day 1

09:00 hrs	Welcome and introduction to the course agenda, Introduction of participants
09:20 hrs	Bestcair – Warranty program <ul style="list-style-type: none">• Current guidelines for maintenance of BOGE screw compressors with oil-injection cooling• Bestcair – Warranty terms Fundamentals of compressed air
09:30 hrs	Break
11:00 hrs	Compressor controls – focus control 2.0 <ul style="list-style-type: none">• Design, function and handling
12:45 hrs	Lunch-Break
13:30 hrs	Compressor controls – focus control 2.0 <ul style="list-style-type: none">• Setup of a base load switch and Software flashing
15:00 hrs	Break
15:30 hrs	Compressor controls – focus control 2.0 <ul style="list-style-type: none">• Setup of a base load switch
17:00 hrs	End of the seminar day

BOGE Compressed Air Academy

Professional Service Seminar (English)

Agenda Compressor servicing (2EE1)

Day 2

09:00 hrs	Compressor controls – focus control 2.0 <ul style="list-style-type: none">• Setup of a base load switch
10:30 hrs	Break
11:00 hrs	Compressor room
12:00 hrs	Compressed air treatment Design, function, application and layout criteria
12:45 hrs	Lunch-Break
13:30 hrs	Screw compressors with oil-injection – bestcair warranty program <ul style="list-style-type: none">• Installation and commissioning according bestcair requirements• BOGE connect
15:00 hrs	Fault determination and localisation on BOGE compressors (electrical and mechanical)
15:45 hrs	Break
16:15 hrs	Fault determination and localisation on BOGE compressors (electrical and mechanical)
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.

BOGE Compressed Air Academy

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	<ul style="list-style-type: none">• Basics of compressed air• Expanded knowledge of design, function, commissioning and maintenance of oil lubricated and oil free piston compressors• Expanded knowledge of design, function, commissioning and maintenance 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 warranty program
Requirements	<ul style="list-style-type: none">• 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	July 01/2021 Bielefeld October 14/2021 Bielefeld

BOGE Compressed Air Academy

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.

BOGE Compressed Air Academy

Accommodation/recommended hotels

Mercure Hotel Bielefeld

Am Johannisberg 5

33615 Bielefeld

Tel: 0521/92380

mail: HB0Q9@accor.com

Internet: <http://www.mercure.com/de/city/hotels-bielefeld-v0429.shtml>

Please book rooms yourselves.

Registration

You can also register for your seminar quickly and easily at our website:

<https://www.boge.com/en/seminars>

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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.

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 topics 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.

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 majeure.

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.

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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.

BOGE Compressed Air Academy

Place of Jurisdiction, governing Law

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

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.