



## Course brochure 2013

Specialist courses  
for industrial gas users  
and planning engineers

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## Success through advanced training

We are pleased to present you with your own personal copy of our course brochure 2013 giving information on our specialist courses. Advanced training – a frequently used term, the importance of which cannot be emphasized enough in our profession. Participation in regular training courses is not only a compulsory part of the qualification process in accordance with the DVGW Codes of Practice on working on gas installations, but it is also indispensable in order to keep up with technical progress. You are informed of innovations that increase the safety of your installation or contribute to saving energy. Standards and Directives are being updated all the time, making regular advanced training necessary to ensure that you act in a legally compliant manner.

Let us take you on a journey from the first manual valve of a thermoprocessing installation right up to the flame. Our specialist courses 1 – 4 offer you this opportunity.

You will become acquainted with the design and mode of operation of pressure regulators, valves, burner control units and gas burners, among other things. Practical, hands-on exercises on maintenance and troubleshooting will be carried out. Through your active participation, helpful tips can be acquired in discussion groups. You will learn in a stimulating environment with and from one another.

While courses 1 – 4 involve a lot of practical training, specialist courses 5 – 7 deal with regulations (“Who is allowed to do what?”), legal basis and Standards for thermoprocessing equipment as well as programming our BCSoft-compatible products. Are you responsible for planning, commissioning or safety? Then this is the place for you!

You can get an insight into our specialist courses from the photos in this brochure or, for the most up-to-date pictures, visit our photo gallery on the Internet at: [www.kromschroeder.com](http://www.kromschroeder.com) → Company → Courses → Photo gallery.

I look forward to seeing you at our training centre.



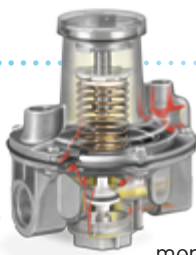
## Gas pressure control

### Specialist course 1

Gas pressure regulators reduce the supply pressure to the pressure required for the operation of the gas-using installation and keep it constant. Safety shut-off valves and safety relief valves secure all downstream controls against excess pressure. Gas filters guarantee the high flexibility of all components in the gas line.

### Contents

- Fundamentals of the standard and operating states of fuel gas.
- Function of controls, filters, pressure regulators, safety shut-off valves and safety relief valves.
- Examples and exercises for selecting and designing the units.
- Specimen installations to highlight the interaction between the controls in operational gas lines.
- Explanation of relevant Standards.
- Exercises on settings and test values.
- Tips and tricks for working with the spare parts list DVD and the **Docuthek** document library using the DVD and the Internet.
- Practical exercises to gain hands-on experience in the adjustment and testing of regulators and safety devices, commissioning, troubleshooting and, for example, replacing filters and diaphragms.



### Participants

Specialists, service staff and also newcomers to the profession from customer service, production, maintenance and troubleshooting departments.

### Training objective

Specialist course 1 imparts a broader knowledge of devices and components for gas pressure control. Here, the participants learn how to carry out setting and maintenance work independently, as well as how to replace worn parts and carry out troubleshooting or preventive maintenance.

### Our tip

Specialist courses 1 and 2 deal with mechanical and pneumatic functions of gas controls. Participants who in addition carry out electrical engineering tasks in their jobs should also book a place on specialist course 3, **Industrial burner control**.

### Dates

See page 15 (year planner).

### Note

Elster GmbH in Mainz-Kastel offers seminars on gas pressure regulators, gas measurement, volume correction, data logging and remote data transfer. [www.elster-instromet.com](http://www.elster-instromet.com)



## Gas adjusters

### Specialist course 2

Solenoid valves and motorized valves as well as pressure switches protect and control gas flow to all types of gas-using installation, such as industrial furnaces, heating equipment, fuses, laboratory Bunsen burners, heating boilers and other boilers. Valve tightness control units monitor the fail-safe function of the gas valves. Laws and Standards ensure the safety of systems and operators. Which qualifications do the service personnel require?

### Contents

- Functional elements of solenoid valves, motorized valves and pressure switches in the form of individual devices or as modules in compact valVario control lines with pressure regulators and air/gas ratio controls.
- Integration of automatic valve tightness controls in thermoprocessing equipment in theoretical and practical exercises.
- Explanation of protection functions prescribed by laws, Standards and Directives.
- Discussion of the legal situation relating to testing, inspection and servicing or conversion work on gas installations.
- Practical exercises to gain hands-on experience in troubleshooting, setting work, maintenance and replacing components in solenoid valves and motorized valves.



### Participants

Specialists, service staff and also newcomers to the profession from customer service, production, maintenance and troubleshooting departments.

### Training objective

Specialist course 2 imparts a broader knowledge of devices and components for gas safety and monitoring. Here, the participants learn how to carry out setting and maintenance work independently, as well as how to carry out troubleshooting or preventive maintenance. The legal situation is explained. The functioning and procedure of automatic valve tightness controls are made clear.

### Our tip

Specialist courses 1 and 2 deal mainly with mechanical and pneumatic functions of gas controls. Participants who in addition carry out electrical engineering tasks in their jobs should also attend specialist course 3, **Industrial burner control**.

### Dates

See page 15 (year planner).



## Industrial burner control

### Specialist course 3

Automatic burner control units are considered to be the heart of every gas-using installation. They start the burner when heat is required and ensure that the gas supply is reliably closed off in the event of malfunctions, which can be triggered by various causes in practice. Electronic actuators for control valves now offer various possibilities for automation and saving energy.

#### Contents

- Principles of various flame control methods.
- Functions of automatic burner control units, flame detectors and actuators.
- Burner control units using BUS communication.
- Standard requirements and the corresponding choice of devices.
- Overview of the BCSoft diagnostic software options for burner control units and actuators, with examples.
- Installation requirements, adjustment and troubleshooting work are demonstrated and practised in detail in small groups.

#### Participants

Specialists and service staff involved in practical work with measuring and control systems in production and maintenance departments, in addition to switchgear construction planners and technicians. Also, people in charge of systems from other fields, who must determine and remedy the reasons for failure quickly with the help of the burner control unit display in the event of a fault.

#### Training objective

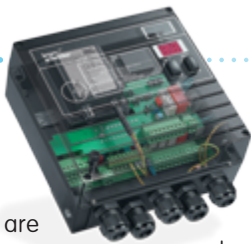
Specialist course 3 imparts a broader knowledge of the functional interrelation of automatic burner control units and electronic actuators. Here, the participants practise analyzing and remedying faults and their causes independently on industrial burner installations. The advantages of being able to use software tools to support them in this are recognized.

#### Our tip

Specialist course 3 covers electronic systems for the control and monitoring of industrial burners. Participants who are aiming for additional knowledge on interactions and interrelations in complete gas-using installations are advised to attend specialist courses 1, 2 and 4 in addition.

#### Dates

See page 15 (year planner).



## Industrial gas burners

### Specialist course 4

The need to save energy, achieve high efficiency and comply with the emission limits (BImSchG [Federal Emission Control Act] and TA-Luft [Clean Air Directive] in Germany) determines design and setting of the burners. This makes stringent demands on planning and on those who install, commission and service the burners in practice.

#### Contents

- Generation of flame shapes for various applications thanks to special burner heads and corresponding burner quarls and burner tubes.
- Explanation of burner data and their settings, as well as systems for cold and recuperatively preheated combustion air.
- Joint planning of a complete air/gas ratio control line with burner. This control line will then be assembled in a burner laboratory in small groups and will be commissioned with all required setting work until there is a real flame.
- Functions, features, adjustment and maintenance of pilot burners.
- Fundamentals as well as tips and tricks from practical experience for reliable and safe ignition of gas burners.

#### Participants

Specialists and service staff in the production, maintenance and customer service departments for industrial furnaces in all industries. In addition, practically oriented system planners and energy consultants.

#### Training objective

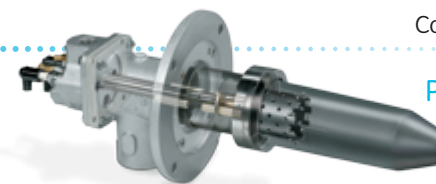
Specialist course 4 imparts a broader knowledge of gas burners and components for combustion gas/air mixture supply. Here, the participants learn how to carry out setting and maintenance work independently, as well as how to replace worn parts and carry out troubleshooting on burners or preventive maintenance. Faults when choosing ignition transformers and installing high-voltage cables will be avoided in future.

#### Our tip

Specialist course 4 focuses on industrial burners with common fan, but not, however, burners for domestic heating boilers and wall-mounted gas boilers. Participants who in addition would like to expand their knowledge of gas controls for their job should also book a place on specialist courses 1 and 2. Specialist course 3 deals with flame control and burner control.

#### Dates

See page 15 (year planner).



## Regulations for industrial gas users

### Specialist course 5

Do you actually know what you are really responsible for? For operators of industrial thermoprocessing equipment, new legal aspects apply due to European regulations. Regular imparting of information is required in order to comply with the sense of the current Directives.

### Contents

- Explanation of interrelations and applications of European and national regulations (various Directives, EN Standards, e.g. EN 746 Part 2 and the German Energy Industry Act, Labour Protection Act, Accident Prevention Regulations and the DVGW Codes of Practice).
- Responsibilities of and the requirements on manufacturers and operators of industrial gas installations are presented.
- Presentation of the legal situation for servicing and maintenance by own qualified experts and authorized personnel.
- How to obtain **expert knowledge/technical qualifications**.
- The advantages of factory standards with examples.
- **Conditions for operation in non-compliance under a variance or continuation permit** – statutory regulations in this respect as well as risk assessment when servicing and converting systems.
- Inspection of systems with actual status analysis and comparison with the current statutory requirements.

### Participants

Safety specialists in industrial companies. Staff responsible for gas distribution, standards bodies, maintenance and factory customer service. Energy consultants and systems manufacturers.

### Training objective

To gain an overview of the maze of standards. To achieve safety, not just in a technical sense, but from now on to also act and make decisions on the basis of the current legal situation.

The qualification requirements for commissioning and maintenance work for one's own personnel as well as for external personnel are made clear.

The participants recognize the usefulness of company-specific documentation of technical functions and responsibilities.

### Our tip

This seminar is primarily directed at users and operators of already existing gas-using installations. Participants who also deal with the installation and conversion of thermoprocessing equipment are advised to attend specialist course 6 (see page 9) in addition.

### Dates

See page 15 (year planner).

## Industrial thermoprocessing equipment

### Specialist course 6

Today, suppliers and operators are equally responsible for operational safety and on-the-job safety. Therefore, in addition to knowledge about the functions of gas controls and control elements, an overview of the present situation of the standards (focussing on the current edition of EN 746-2 among others) and the statutory safety requirements is especially important.

### Contents

- Introduction to the construction of industrial furnaces in compliance with standards, with examples.
- Legal basis for installation and commissioning.
- Obligation to conduct a hazard analysis.
- Ordinance on Industrial Safety and Health and the European Occupational Safety and Health Ordinance.
- Requirements on equipment pursuant to the new EN 746-2.
- Construction of control and protective systems for modulating control and cyclical control (pulse control).
- Project planning information for gas control and safety lines.
- Notes for documentation, commissioning and maintenance.
- Introduction to the topic of SIL/PL.

### Participants

Planners in furnace and kiln construction companies, industrial companies with gas-fired installations and engineering offices. Plant operators, who are aiming for a deeper knowledge, e.g. in view of a position as a **qualified person** pursuant to the German

Ordinance on Industrial Safety and Health (BetSichV) or as a **qualified expert** (pursuant to DVGW) for gas control and safety lines to thermoprocessing equipment up to 5 bar.

### Training objective

Knowledge about legislation applicable to the installation of thermoprocessing equipment is expanded. The participants are informed about safety requirements for combustion and fuel handling systems. They also become acquainted with the requirements for furnace control and process control systems, enabling the knowledge that is gained to be put into practice at work.

### Our tip

This seminar is aimed more at technically oriented participants. If you are interested in finding out more detailed information on the European regulations, we recommend specialist course 5 (see page 8) in addition.

### Dates

Up to now, only two dates have been set for this one-day seminar (21 June and 8 November 2013, see page 15). If there is sufficient demand, we can then offer more dates. Please contact our **Customer Training Department** directly.



## Parameterization and visualization using BCSoft

### Specialist course 7

Manufacturers and users of gas-fired thermoprocessing equipment are ever increasingly using automation options. Burner control units and actuators for control valves now offer enormous potential for individual system optimization as part of their intrinsic functions. Knowledge on how to use this technology increases production quality and operational safety in equal measure.

### Contents

- Introduction to the functional options offered by BCSoft.
- Technical-safety and normative background on using the parameters of burner control units and burner control.
- Overview of burner control units and actuators that are compatible with BCSoft.
- Collecting, saving and archiving operating data.
- Theoretical and practical exercises on analyzing and optimizing operating data, as well as troubleshooting work (preferably using your own PC and current version of BCSoft).
- Software updating via the Internet.
- Practical tips and tricks.



### Participants

Service staff and specialists involved in practical work with measuring and control systems in production, maintenance and troubleshooting departments, in addition to planners and commissioning staff from furnace and kiln construction companies.

### Training objective

This specialist course enables participants to independently use the diverse options offered by the operating software BCSoft in terms of analyzing, optimizing, servicing and increasing the availability of gas-fired thermoprocessing equipment. At the same time, participants are informed about safety requirements for combustion and fuel handling systems, so that the knowledge gained can be put into practice at work.

### Our tip

This seminar builds on the knowledge provided in specialist course 3 **Industrial burner control** (see page 6). We also recommend attending specialist course 3 to provide a good basis. Equally useful is practical experience with the actuators IC 40 and with burner control units BCU/PFU.

### Date

Up to now, only one date has been set for this one-day seminar (18 October 2013, year planner, page 15). If there is sufficient demand, we can then offer more dates. Please contact our **Customer Training** Department directly.



## Seminars on the users' premises

Technical seminars **on site** are also a possible alternative. However, practical exercises are somewhat restricted owing to the limited number of exercise models. Ideally, the number of participants should be between 8 and 15 people.

### Contents

The seminar curriculum for specialist courses 1–4 will be coordinated with the specific needs of the customer and optimized accordingly.

The participants will be provided with documentation in line with the content of the training course.

### Fees

Flatfee of external 1-day course is €2,680 (+VAT), including all expenses for preparation and follow-up, all expenses for (usually) 2 specialist course instructors, car travel and hotel expenses and the complete seminar documentation for the participants.

Plus travel/air flight expenses for courses held abroad.



## Seminars in English

In addition 4-day courses in English are available, comprising the products and applications in courses 1–4. They also cover the practical exercises. Standards and Directives are discussed in adapted form. For seminars in other languages, please contact our agent in the country concerned.

### Dates

See page 15 (year planner).

## Course Management contact details

If you are interested in or require on-site training, please send your request to:

Elster GmbH  
Abteilung Kundenschulung  
(Customer Training Department)  
Markus Grodd  
Postfach 2809, 49018 Osnabrück,  
Germany.

Further details can be arranged over the phone under +49 (0)541 1214-227.

Fax: +49 (0)541 1214-447

E-mail: [markus.grodd@elster.com](mailto:markus.grodd@elster.com)

## Document library www.docuthek.com

With this universal tool, our ever increasing offer of technical documentation is accessible for you anywhere in the world, with entries being updated on a daily basis.

As a guest user, you have access to brochures, operating instructions, technical papers, animated descriptions of functions, data sheets, certificates, leaflets and much more.

Once you have registered, you will have access to tips on essential points and on application, characteristic diagrams, CAD data, photos, software, unit drawings and the up-to-date price list. It is free for you to use the DOCUTHEK.

## Kromschroder spare parts list DVD PartDetective

With the PartDetective DVD, you will receive a universal database for defining spare parts for Kromschroder products. Parts lists and drawings are available for the selected products, can be easily printed out and copied into Word or Excel files or e-mails.

For participants on specialist courses 1–4, a PartDetective DVD and a “Catalogue DVD”, incl. the DOCUTHEK, will already be provided in your course folder. All the functions run directly from the DVD.



## Kromschroder System Technology KST

Aluminium, steel, ceramics, glass industries etc. – they all need controlled temperatures for production. We are an experienced, efficient partner to the industry and develop and build bespoke system solutions for our customers.

We share our specialist knowledge with you on the KST website. As a registered user of KST, you can read up on the interrelations of gas and burner systems and you can also obtain explanations of the relevant national or international standard. Useful tips on products, systems, Standards and Directives, as well as on gas engineering in general, can be found on KST, in addition to a tool kit full of useful apps to make your everyday professional life easier. Extensive collections of examples regarding gas inlet sections, burner systems and process control are clearly illustrated and if required, explained in detail. You have a number of ways to organize and archive your new knowledge. And if you have any questions, your own personal contact partner will be happy to be of service to you.



## Seminar venue, course agenda and trainers

The seminars are held at the Elster Kromschroder Information Centre in Strothweg 1, 49504 Lotte (Büren), Germany. A sketch of how to get there on page 18 of this course brochure will help you to find your way.

| Course agenda                                 | Time                |
|-----------------------------------------------|---------------------|
| 1. Seminar section                            | 9:00 am – 10:00 am  |
| Coffee break                                  | 10:00 am – 10:15 am |
| 2. Seminar section                            | 10:15 am – 12:00 pm |
| 3. Lunch and opportunity to have a plant tour | 12:00 pm – 1:15 pm  |
| 4. Seminar section with theoretical exercises | 1:15 pm – 2:45 pm   |
| Coffee break                                  | 2:45 pm – 3:00 pm   |
| 5. Seminar section with practical exercises   | 3:00 pm – 4:45 pm   |

The exercises are an important part of the training programme and should be completed without being pressed for time. It is therefore advisable that the participants allow some extra time for the fifth seminar section on their day of departure.



## Trainers

The **Customer Training** Department is responsible for organizing and conducting the specialist courses.

Management: Markus Grodd

The lectures of the specialist courses will be given by product specialists.

They include, among others:

- Stefan Schönebeck  
Gas pressure control
- Hubert Bolte  
Statutory regulations
- Ulrich Engelmann  
Burner control/Electronics
- Martin Heisig  
Pressure switches
- Heinz Janus  
Gas adjusters
- Aloys Quatmann  
Burner control/Electronics
- Christian Schare  
Customer service
- Lars Schröder  
Pilot burners
- Eckart Schulz  
Laws and Directives
- Anja Winkler  
Automatic tightness controls
- Martin Wicker  
Industrial gas burners  
Standards and application technology

## Scope, fees and registration

### Scope

The following are included in the course fee:

- extensive training material and documentation for the specialist lectures, a course folder for courses 1–4 with a **Docuthek** DVD with all available technical documents and one **PartDetective** spare parts DVD.
- KST activation code to use the “Kromschroder System Technology” knowledge database for an unlimited period of time (see page 12).
- drinks during breaks and a meal at lunchtime.
- the opportunity to have a plant tour.

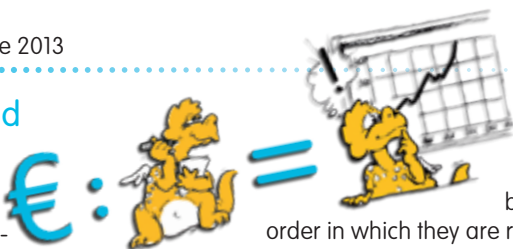
Each participant will receive a certificate of participation at the end of the course.

### Costs

The course fee is € 445 per participant and course day.

As of the 3rd day in a course week, the daily fee is only € 395.

The course fee (+ VAT) will be billed after the course.



### Registration

Applications for registration will be processed in the order in which they are received.

The exercises will partly take place in small groups which means that the number of participants is limited.

We therefore advise you to make your reservation with us as early as possible. Experience has shown that the best time to apply successfully for your required date is immediately after this course brochure has been published.

A registration form can be found on pages 16/17.

Participants may cancel their registration two weeks before the start of the course at the latest. If participants are unable to attend, it would be desirable if colleagues could stand in for them, since unfortunately we must invoice a flat fee of € 150 per day and participant in the case of short-term cancellation or absence.

If overnight accommodation is required, we ask you to book this for yourself (see list of hotels on page 19). On request, some hotels will charge you the stated cheaper price, if you refer to your participation in an Elster Kromschroder seminar.

## Year planer 2013

|    | January          | February         | March             | April            | May              | June             |
|----|------------------|------------------|-------------------|------------------|------------------|------------------|
| 1  | Tue 1            | Fri              | Fri               | Mo 14            | Wed              | Sat              |
| 2  | Wed              | Sat              | Sat               | Tue              | Thu              | Sun              |
| 3  | Thu              | Sun              | Sun               | Wed              | Fri              | Mo 23            |
| 4  | Fri              | Mo 6             | Mo Course 1 (GB)  | Fri              | Sat              | Tue              |
| 5  | Sat              | Tue              | Tue Course 2 (GB) | Fri              | Sun              | Wed              |
| 6  | Sun              | Wed              | Wed Course 3 (GB) | Sat              | Mo 19            | Thu              |
| 7  | Mo               | Thu              | Thu Course 4 (GB) | Sun              | Tue              | Fri              |
| 8  | Tue              | Fri              | Fri               | Mo Course 1 (D)  | Wed              | Sat              |
| 9  | Wed              | Sat              | Sat               | Tue Course 2 (D) | Thu              | Sun              |
| 10 | Thu              | Sun              | Sun               | Wed Course 3 (D) | Fri              | Mo 24            |
| 11 | Fri              | Mo Course 1 (D)  | Mo 11             | Thu Course 4 (D) | Sat              | Tue              |
| 12 | Sat              | Tue Course 2 (D) | Tue               | Fri Course 5 (D) | Sun              | Wed              |
| 13 | Sun              | Wed Course 3 (D) | Wed               | Sat              | Mo Course 1 (D)  | Thu              |
| 14 | Mo               | Thu Course 4 (D) | Thu               | Sun              | Tue Course 2 (D) | Fri              |
| 15 | Tue              | Fri              | Fri               | Mo 16            | Wed Course 3 (D) | Sat              |
| 16 | Wed              | Sat              | Sat               | Tue              | Thu Course 4 (D) | Sun              |
| 17 | Thu              | Sun              | Sun               | Wed              | Fri              | Mo Course 1 (D)  |
| 18 | Fri              | Mo 8             | Mo 12             | Thu              | Sat              | Tue Course 2 (D) |
| 19 | Sat              | Tue              | Tue               | Fri              | Sun              | Wed Course 3 (D) |
| 20 | Sun              | Wed              | Wed               | Sat              | Mo 21            | Thu Course 4 (D) |
| 21 | Mo Course 1 (D)  | Thu              | Thu               | Sun              | Tue              | Fri Course 6 (D) |
| 22 | Tue Course 2 (D) | Fri              | Fri               | Mo 17            | Wed              | Sat              |
| 23 | Wed Course 3 (D) | Sat              | Sat               | Tue              | Thu              | Sun              |
| 24 | Thu Course 4 (D) | Sun              | Sun               | Wed              | Fri              | Mo 26            |
| 25 | Fri              | Mo 9             | Mo 13             | Thu              | Sat              | Tue              |
| 26 | Sat              | Tue              | Tue               | Fri              | Sun              | Wed              |
| 27 | Sun              | Wed              | Wed               | Sat              | Mo 22            | Thu              |
| 28 | Mo               | Thu              | Thu               | Sun              | Tue              | Fri              |
| 29 | Tue              | —                | Fri               | Mo 18            | Wed              | Sat              |
| 30 | Wed              | —                | Sat               | Tue              | Thu              | Sun              |
| 31 | Thu              | —                | Sun               | Fri              | —                | —                |

|    | July  | August | September         | October          | November         | December         |
|----|-------|--------|-------------------|------------------|------------------|------------------|
| 1  | Mo 27 | Thu    | Sun               | Tue              | Fri              | Sun              |
| 2  | Tue   | Fri    | Mo 36             | Wed              | Sat              | Mo Course 1 (D)  |
| 3  | Wed   | Sat    | Tue               | Thu              | Sun              | Tue Course 2 (D) |
| 4  | Thu   | Sun    | Wed               | Fri              | Mo Course 1 (D)  | Wed Course 3 (D) |
| 5  | Fri   | Mo 32  | Thu               | Sat              | Tue Course 2 (D) | Thu Course 4 (D) |
| 6  | Sat   | Tue    | Fri               | Sun              | Wed Course 3 (D) | Fri Course 5 (D) |
| 7  | Sun   | Wed    | Sat               | Mo 41            | Thu Course 4 (D) | Sat              |
| 8  | Mo    | Thu    | Sun               | Tue              | Fri Course 6 (D) | Sun              |
| 9  | Tue   | Fri    | Mo Course 1 (D)   | Wed              | Sat              | Mo 50            |
| 10 | Wed   | Sat    | Tue Course 2 (D)  | Thu              | Sun              | Tue              |
| 11 | Thu   | Sun    | Wed Course 3 (D)  | Fri              | Mo 46            | Wed              |
| 12 | Fri   | Mo 33  | Thu Course 4 (D)  | Sat              | Tue              | Thu              |
| 13 | Sat   | Tue    | Fri Course 5 (D)  | Sun              | Wed              | Fri              |
| 14 | Sun   | Wed    | Sat               | Mo Course 1 (D)  | Thu              | Sat              |
| 15 | Mo    | Thu    | Sun               | Tue Course 2 (D) | Fri              | Sun              |
| 16 | Tue   | Fri    | Mo 38             | Wed Course 3 (D) | Sat              | Mo 51            |
| 17 | Wed   | Sat    | Tue               | Thu Course 4 (D) | Sun              | Tue              |
| 18 | Thu   | Sun    | Wed               | Fri Course 7 (D) | Mo 47            | Wed              |
| 19 | Fri   | Mo 34  | Thu               | Sat              | Tue              | Thu              |
| 20 | Sat   | Tue    | Fri               | Sun              | Wed              | Fri              |
| 21 | Sun   | Wed    | Sat               | Mo 43            | Thu              | Sat              |
| 22 | Mo    | Thu    | Sun               | Tue              | Fri              | Sun              |
| 23 | Tue   | Fri    | Mo Course 1 (GB)  | Wed              | Sat              | Mo 52            |
| 24 | Wed   | Sat    | Tue Course 2 (GB) | Thu              | Sun              | Tue              |
| 25 | Thu   | Sun    | Wed Course 3 (GB) | Fri              | Mo 48            | Wed              |
| 26 | Fri   | Mo 35  | Thu Course 4 (GB) | Sat              | Tue              | Thu              |
| 27 | Sat   | Tue    | Fri               | Sun              | Wed              | Fri              |
| 28 | Sun   | Wed    | Sat               | Mo 44            | Thu              | Sat              |
| 29 | Mo    | Thu    | Sun               | Tue              | Fri              | Sun              |
| 30 | Tue   | Fri    | Mo 40             | Wed              | Sat              | Mo               |
| 31 | Wed   | Sat    | Thu               | —                | —                | Tue              |

Optional dates (GB)

Reserve dates (D)

Seminar week (GB)

Seminar week (D)



## Specialist course registration form

Simply fill out this registration form and send it to us by e-mail by clicking on the envelope icon.

You will receive written confirmation of your reservation shortly after.



Elster GmbH  
 Customer Training  
 Markus Grodd  
 F +49 541 1214-447  
 P.O. Box 2809  
 49018 Osnabrück  
 Germany

We register the following persons for participation in the marked Elster Kromschroder specialist courses. This registration is binding:

(First name and surname)

Ms., Mr.

<sup>1)</sup> E-mail

Function

(First name and surname)

Ms., Mr.

<sup>1)</sup> E-mail

Function

(First name and surname)

Ms., Mr.

<sup>1)</sup> E-mail

Function

(First name and surname)

Ms., Mr.

<sup>1)</sup> E-mail

Function

<sup>1)</sup> Participants' e-mail addresses will only be used to communicate urgent information and will be deleted from our system once the course has taken place.

Order No. \_\_\_\_\_

\* Company \_\_\_\_\_

\* P.O. Box/Street \_\_\_\_\_

\* Postcode and town/city \_\_\_\_\_

\* Name \_\_\_\_\_

Department \_\_\_\_\_

\* Tel. \_\_\_\_\_

E-mail \_\_\_\_\_

*\* obligatory information*

Please tick the desired specialist courses.

Course ① ② ③ ④ ⑤ ⑥ ⑦

from (on) \_\_\_\_\_ to \_\_\_\_\_

Course ① ② ③ ④ ⑤ ⑥ ⑦

from (on) \_\_\_\_\_ to \_\_\_\_\_

Course ① ② ③ ④ ⑤ ⑥ ⑦

from (on) \_\_\_\_\_ to \_\_\_\_\_

Course ① ② ③ ④ ⑤ ⑥ ⑦

from (on) \_\_\_\_\_ to \_\_\_\_\_

Date \_\_\_\_\_

If the course is already full, please confirm the following alternative date:

from (on) \_\_\_\_\_ to \_\_\_\_\_

from (on) \_\_\_\_\_ to \_\_\_\_\_

from (on) \_\_\_\_\_ to \_\_\_\_\_

from (on) \_\_\_\_\_ to \_\_\_\_\_

Company stamp and signature \_\_\_\_\_

## Elster Kromschröder – the best way to find us

The training courses take place at Elster Kromschröder's headquarters in Greater Osnabrück.

If you are arriving by car, the North/South motorway A 1 and the East/West connection A 30 provide easy access.

First point of orientation is the Lotte/Osnabrück motorway interchange. The **Osnabrück-Hafen exit 71** offers the fastest and simplest access. The route is signposted ("Industriegebiet Büren") as of this point.

When travelling by train: a taxi takes approx. 15 minutes to reach Elster Kromschröder from the main station in the city centre.



By bus: any bus number to the **Neumarkt**. Then on with the R11 to the **Kromschröder** stop.

One other good way to reach Elster Kromschröder is by air: Münster/Osnabrück international airport offers excellent access services to Osnabrück city centre (bus number X150). About 30 minutes by bus. Or approx. 20 minutes by taxi, directly to Elster Kromschröder.

Elster GmbH  
Postfach 2809,  
49018 Osnabrück  
Strothweg 1,  
49504 Lotte (Büren)

← Entry into navigation system



## Hotels

|    | Hotels and addresses                                                                                                                                   | Price in g *)<br>Single room<br>with shower,<br>breakfast incl. | Phone,<br>Fax             | Distance from<br>Elster<br>Kromschröder |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|---------------------------|-----------------------------------------|
| 1  | Advena HOHENZOLLERN<br>Theodor-Heuss-Platz 5, 49074 Osnabrück<br><a href="http://www.advenahotels.com">www.advenahotels.com</a>                        | 84,00                                                           | 0541/3317-0<br>/3317-351  | 8,4 km                                  |
| 2  | IBIS<br>Blumenhaller Weg 152, 49078 Osnabrück<br><a href="http://www.ibis-osnabrueck.com">www.ibis-osnabrueck.com</a>                                  | 79,00                                                           | 0541/4049-0<br>/4049-122  | 12,5 km                                 |
| 3  | Idingshof<br>Bührener Esch 1, 49565 Bramsche<br><a href="http://www.idingshof.de">www.idingshof.de</a>                                                 | 59,00                                                           | 05461/889-0<br>/889-64    | 19,7 km                                 |
| 4  | INTOUR<br>Maschstraße 10, 49078 Osnabrück<br><a href="http://www.intourhotel.de">www.intourhotel.de</a>                                                | 55,00                                                           | 0541/96386-0<br>/434239   | 7,7 km                                  |
| 5  | KULMBACHER HOF<br>Schlosswall 65-67, 49074 Osnabrück<br><a href="http://www.kulmbacher-hof.de">www.kulmbacher-hof.de</a>                               | 68,40                                                           | 0541/3570-0<br>/3570-20   | 7,6 km                                  |
| 6  | NIKOLAI<br>Kamp 1, 49074 Osnabrück<br><a href="http://www.hotel-nikolai.de">www.hotel-nikolai.de</a>                                                   | 72,00                                                           | 0541/33130-0<br>/33130-88 | 7,0 km                                  |
| 7  | PARKHOTEL<br>Am Heger Holz, 49076 Osnabrück<br><a href="http://www.parkhotel-osnabrueck.de">www.parkhotel-osnabrueck.de</a>                            | 65,00 – 80,00                                                   | 0541/9414-0<br>/9414-200  | 7,2 km                                  |
| 8  | Romantikhotel WALHALLA<br>Bierstraße 24, 49074 Osnabrück<br><a href="http://www.hotel-walhalla.de">www.hotel-walhalla.de</a>                           | 86,00                                                           | 0541/3491-0<br>/3491-144  | 6,7 km                                  |
| 9  | Steigenberger REMARQUE<br>Natruper-Tor-Wall 1, 49076 Osnabrück<br><a href="http://www.osnabrueck.steigenberger.de">www.osnabrueck.steigenberger.de</a> | 111,00 – 191,00                                                 | 0541/6096-0<br>/6096-600  | 6,7 km                                  |
| 10 | WELP<br>Natruper Straße 227, 49090 Osnabrück<br><a href="http://www.hotel-welp.de">www.hotel-welp.de</a>                                               | 59,00 – 64,00                                                   | 0541/91307-0<br>/91307-34 | 3,7 km                                  |
| 11 | Altes Gasthaus Schroer<br>Große Str. 10, 49492 Westerkappeln<br><a href="http://www.hotel-gasthaus-schroer.de">www.hotel-gasthaus-schroer.de</a>       | 48,00                                                           | 05404/2494<br>/6489       | 7,3 km                                  |

\*) in some cases special prices for Elster Kromschröder; please indicate when making your reservation. Prices subject to change. (As per: October 2011)



elster  
Kromschöder

## Contact

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