

Training Programme 2012



Introduction

Dear Customer,

Trelleborg Pipe Seals Duisburg GmbH is among the leading suppliers of technical solutions for trenchless repair and rehabilitation of pipes in sewer systems, buildings and industrial sites, both in Germany and worldwide.

The partly patented methods and perfectly matched components guarantee for easy, practical and user-friendly handling to produce high-quality results.

We are pleased to know that you have decided to join us and use our long-standing proven and mainly DIBt-certified methods.

This brochure is intended to provide both new customers and installers already familiar with our systems with information about the training courses and qualification programmes proposed by us.

Our training proposals cover 3 levels of performance: The basic training courses are intended for installers having no knowledge so far. The objective is to transmit the basic knowledge of the materials and equipment and epros®-specific application methods, especially with regard to the requirements to be met within the scope of the general technical approvals issued by DIBt.

The advanced training or brush-up courses are intended for installers wishing to catch up with the state of the art, or to update and deepen their knowledge. At the same time, these courses are the compulsory part of the training scheme for our certified installers and need to be repeated every two years at the latest.

Every course is limited to a maximum of 6 persons, thus offering intensive training without sacrificing teaching and learning pleasure.

If you feel there are gaps in our training programme or we should add specific items not included yet, please do not hesitate to contact us. We would be pleased to come up with training programmes custom-tailored to the specific needs of your company.

We are looking forward to hearing from you.

Andreas Bichler / Technical Manager



Engineering & Product development
Andreas Bichler



Product Training & Technical Support
Frank Grygowski



Training Administration & Reception
Claudia Dierks / Heike Zenke

Organisation (at a glance)*

Registration:	www.Trelleborg.com/de/Epros/Service/Training
Pricing:	<p>Our prices and fees are quoted exclusive of VAT, for 1 person, with registration on or before 15th December 2012.</p> <p>The prices include training materials, drinks and lunch during the meeting.</p> <p>We normally invoice the attendance fees shortly after the training event as immediately due and payable.</p>
Cancellation fees:	<p>No charge if cancelled 8 days before the scheduled start date, later withdrawals give rise to processing fees.</p> <p>Refer to our Terms & Conditions for Training (page 2)</p>
Advanced training	Requires the basic training first
Brush-up:	A "must" for our certified partners, a "recommendation" for our customers.
Important	Please remember to bring work clothes, because the training will include practical exercises.
Hotel reservation:	Please do not hesitate to contact us if you need help for booking a room.
Hotel expenses:	Are not included in the training price.
Customised workshops:	On special request
Number of participants:	no less than 3 persons, no more than 6 persons
Examination:	Every training course ends with a final examination questionnaire allowing the trainee to check his or her knowledge.
Certificate:	Every participant is issued a final certificate at the end of the training course.
Meeting place:	<p>Trelleborg Pipe Seals Duisburg GmbH Dr.-Alfred-Herrhausen-Allee 36 47228 Duisburg</p>
Contact:	<p>Claudia Dierks Heike Zenke</p> <p>E-mail: claudia.dierks@trelleborg.com</p>

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All statements in connection with our "Training Terms & Conditions " (page 2)

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Basic Training (Products & Methods)

epros®DrainLiner method

[Training Code 12-01]

Training Fee*

€390,-

Renovation of house sewers, lateral pipes and main lines in sewer systems and buildings using the cured-in-place pipe lining and inversion technique (trenchless construction)

**Schedule
2012**

Duration 2 days

Training hours from 9 am to 4 pm

Total training time 14 hours

Agenda Morning:

Theoretical basics of the epros®DrainLining method
Day 1: Closed-end liner installation
Day 2: Open-end liner installation

Afternoon (days 1 & 2):

Practical part to train the lining operations at the example of a 4000-mm-long test section on our in-house trial premises or in the workshop.

Training Courses
upon request.

Contents

- Applications of the method
- Technical components of the epros®DrainLiner method
- Job preparation measures
- Lining preparations (definition of liner type, resin type and equipment to be used)
- Material science – resin systems (differences in properties, mixing method, resin pot times and cure times)
- Material science – liners (properties and applications)
- Description of the various installation methods
- Description of the various cure methods
- Quality assurance / self-monitoring
- Site documentation / rehab protocols
- Safety instructions

Objective:

- Proper workflow knowledge and correct performance of lining operations from the first step to the final result, especially with regard to the quality features meeting the DIBt certification requirements
- Safe use of equipment and materials
- Knowledge and proper performance of the various inversion methods
- Knowledge and proper performance of hot water cure

Target group:

- Newcomers and professionals in need of re-training
- Members of Engineering teams and Civil Engineering offices

REMINDER !

Refresher course
required every
2 years

Basic Training (Products & Methods)

epros®DrainPacker method

[Training Code 12-02]

Partial repair of buried sewer pipes using short and long liners (trenchless construction)

Training Fee*

€240,-

**Schedule
2012**

Training Courses
upon request.

Duration 1 day

Training hours from 9 am to 4 pm

Total training time 7 hours

Agenda
Morning:
Development of the theoretical basics

Afternoon:
Practical part for training the whole lining workflow at the example of 600 and 1600 mm long test sections on our in-house trial premises or in the workshop

Contents

- Applications of the method
- Technical components of the epros®DrainPacker method
- Job preparation measures
- Lining preparations (definition of liner type, resin type and equipment to be used)
- Material science – resin systems (differences in properties, mixing method, resin pot times and cure times)
- Material science – fibreglass mats
- Special features of the epros®FoldingMethod
- Technical performance of the lining job
- Quality assurance / self-monitoring
- Site documentation / rehab protocols
- Safety instructions

Objective:

- Proper workflow knowledge and correct performance of lining operations from the first step to the final result, especially with regard to the quality features meeting the DIBt certification requirements
- Safe use of equipment and materials

Target group:

- Newcomers and professionals in need of re-training
- Members of Engineering teams and Civil Engineering offices

REMINDER !

Refresher course
required every
2 years

Basic Training (Products & Methods)

epros®DrainLCR-B

[Training Code 12-03]

Lateral connection repair of underground house sewers and vertical lines in buildings

Training Fee*

€240,-

**Schedule
2012**

Training Courses
upon request.

Duration 1 day

Training hours from 9 am to 4 pm

Total training time 7 hours

Agenda Morning:
Development of the theoretical basics

Afternoon:
Practical part for training the whole workflow at the example of a vertical connection length of approx. 280 mm on our in-house trial premises or in the workshop.

Contents

- Applications of the method
- Technical components of the epros®DrainLCR-B method
- Job preparation measures
- Material science – resin systems (differences in properties, mixing method, resin pot times and cure times)
- Material science – liner / hat profiles
- Lining preparations (LCR liner types and hat profiles, suitable resin systems, preparation of equipment)
- Description of the various installation methods
- Description of the various cure methods with emphasis on steam cure
- Technical performance of the lining job
- Quality assurance / self-monitoring
- Site documentation / rehab protocols
- Safety instructions

Objective:

- Good workflow knowledge and proper performance of the lining operations from the first step to the final result.
- Safe use of equipment and materials

Target group:

- Newcomers and professionals in need of re-training
- Members of Engineering teams and Civil Engineering offices

REMINDER !

Refresher course
required every
2 years

Basic Training (Products & Methods)

epros®DrainLCR-S

[Training Code 12-04]

Lateral connection repair in the sewer main line (house connection)

Training Fee*

€390,-

Duration 2 days

Training hours from 9 am to 4 pm

Total training time 14 hours

Agenda Day 1:

Development of the theoretical basics for lateral connection repairs in the main line of public sewer systems

Day 2:

Practical exercise / training of each individual step, especially positioning of the LCR-S packer, inversion of a hat profile and removal of the LCR-S packer

Contents

- Applications of the method
- Technical components of the epros®DrainLCR-S method
- Job preparation measures
- Material science – resin systems (differences in properties, mixing method, resin pot times and cure times)
- Material science – liner / hat profiles
- Lining preparations (LCR liner types and hat profiles, suitable resin systems, preparation of equipment)
- Description of the various installation methods
- Description of the various cure methods with emphasis laid on steam cure
- Technical performance of the lining job
- Quality assurance / self-monitoring
- Site documentation / rehab protocols
- Safety instructions

Objective:

- Proper workflow knowledge and correct performance of lining operations from the first step to the final result, especially with regard to the applicable DIBt regulations.
- Safe and independent use of equipment and materials

Target group:

- Newcomers and professionals in need of re-training
- Members of Engineering teams and Civil Engineering offices

**Schedule
2012**

Training Courses
upon request.

REMINDER !

Refresher course
required every
2 years



Basic Training Refresher Course

Training Fee*

€240,-

**Schedule
2012**

Training Courses
upon request.

Proposal applicable to all of

epros®DrainLiner method	[Training Code 12-08]
epros®DrainPacker method	[Training Code 12-09]
epros®LCR-S method	[Training Code 12-10]
epros®LCR-B method	[Training Code 12-11]

Duration 1 day

Training hours 9:00 to 16:00

Total training time 7 hours

Agenda Morning:

- Trends and developments in trenchless pipe & sewer rehabilitation methods
- Presentation of product innovations and improvements
- Are there any typical installer errors and how can they be avoided?
- Tips for advanced installers

Afternoon:

- Brief repetition of the theoretical bases
- Practical exercises including innovative features as discussed before

Objective:

- Brush-up of the theoretical and practical skills and competences from the related basic training course
- Exchange of experience gained in the field

Target group:

- Installers having already gained experience in no-dig rehabilitation and repair methods
- Installers using the epros®DrainSystems in practice

Important Is proposed only to installers having already completed the relevant basic training course.

Advanced Training Courses (Products & Methods)

epros®DrainLiner method
Steam cure method

[Training Code 12-06]

Training Fee*

€240,-

Duration 1 day
Training hours from 9 am to 4 pm
Total training time 7 hours

**Schedule
2012**

Agenda Morning:
Development of the theoretical basics
Afternoon:
Practical exercise of lining workflow using the steam cure methodology

Training Courses
upon request.

Contents

- Brief repetition of the theoretical basics (from basic training)
- Applications of the method
- Technical components in steam cure
- Job preparation measures
- Technical performance of the lining job
- Quality assurance / self-monitoring
- Site documentation / rehab protocols
- Safety instructions

Objective:

- Safe application of steam cure to the epros®DrainLiner components.
- Safe use of equipment and materials

Target group: Installers having already completed the basic training course for the epros®DrainLiner method.

Advanced Training Courses (Products & Methods)

epros®DrainLiner method

[Training Code 12-07]

Training Fee*

Lining method for vertical lines and bends

€390,-

Duration 1 day

Training hours from 9 am to 4 pm

Total training time 7 hours

**Schedule
2012**

Agenda Morning:
Development of the theoretical basics

Afternoon:
Practical exercises of lining operations including bends.
Practical exercises of lining operations in vertical lines.

Training Courses
upon request.

Contents

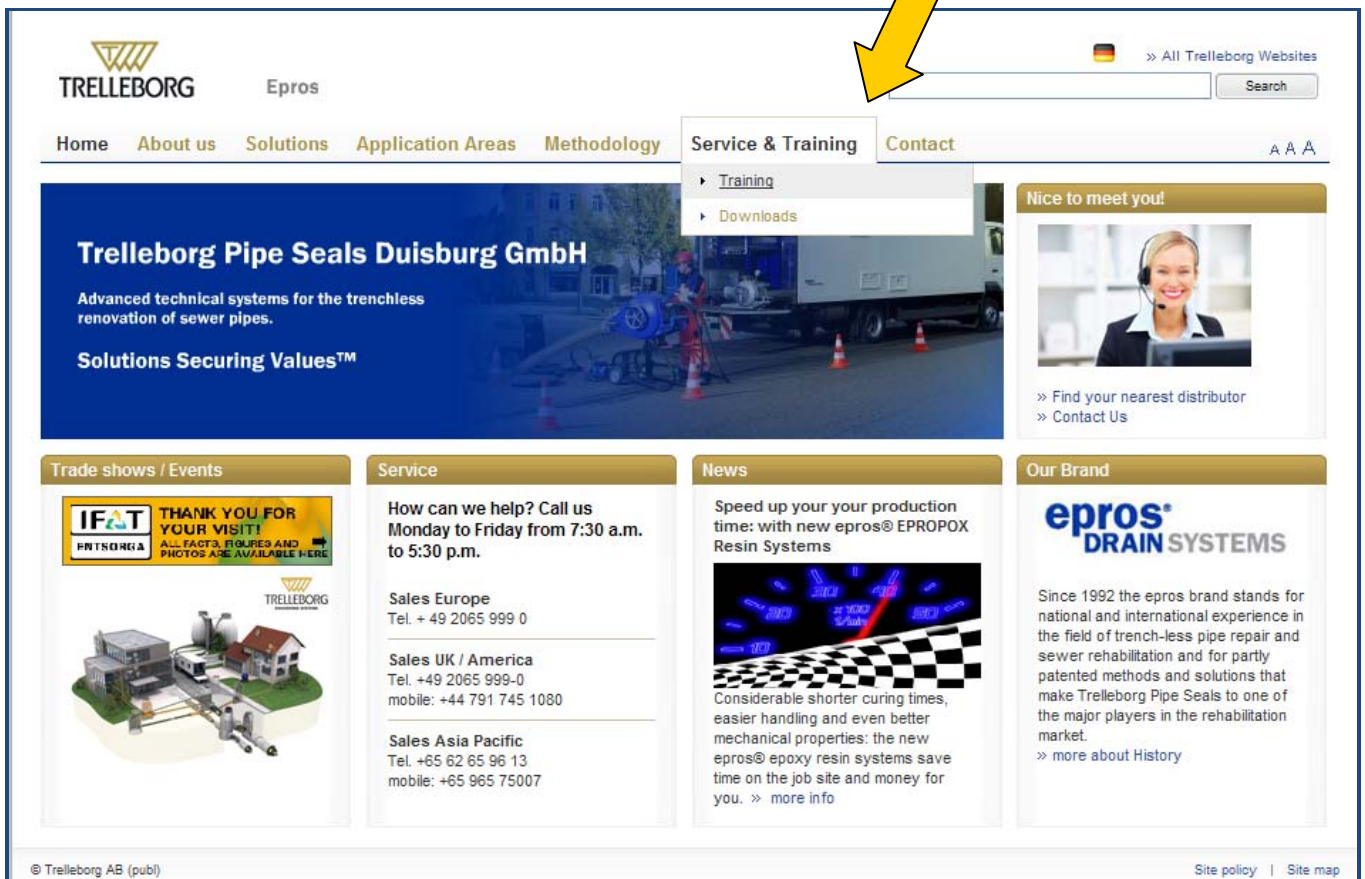
- Brief repetition of the theoretical basics (from basic training)
- Technical components
- Job preparation measures
- Execution of lining work
- Quality assurance / self-monitoring
- Site documentation / rehab protocols
- Safety instructions

Objective:

- Safe use of the epros®DrainLiner method in lines with bends and vertical lines (downpipes)
- Safe use of epros® equipment and materials

Target group: Installers having already completed the basic training course for the epros®DrainLiner method.

WEBSITE ONLINE REGISTRATION: VERY SIMPLE



The screenshot shows the Trelleborg website interface. At the top left is the Trelleborg logo and 'Epros' text. A search bar is at the top right with a German flag icon and the text '» All Trelleborg Websites'. The main navigation menu includes 'Home', 'About us', 'Solutions', 'Application Areas', 'Methodology', 'Service & Training', and 'Contact'. A yellow arrow points to the 'Service & Training' link, which has a dropdown menu with 'Training' and 'Downloads' options. Below the navigation is a large banner for 'Trelleborg Pipe Seals Duisburg GmbH' with the text 'Advanced technical systems for the trenchless renovation of sewer pipes. Solutions Securing Values™'. To the right of the banner is a 'Nice to meet you!' section with a photo of a woman and links to 'Find your nearest distributor' and 'Contact Us'. Below the banner are four columns: 'Trade shows / Events' with an IFAT logo, 'Service' with contact information for Europe, UK/America, and Asia Pacific, 'News' with a headline about 'epros® EPROPOX Resin Systems' and a checkered flag image, and 'Our Brand' with the 'epros® DRAIN SYSTEMS' logo and a paragraph about the brand's history.

www.trelleborg.com/de/epros



Service & Training



Training



Training proposals

REGISTRATION PER FAX

 **+49 (0)2065 999 111**

Company name
Customer no. (if available)

Training Code

Scheduled Date

First name(s) & surname(s) of participant(s):

1.

2.

3.

4.

5.

6.

Day of arrival:

Day of departure:

Contact for admin issues:

Mr. **Ms.**

Telephone (incl. dialling code):

E-mail address:

Company stamp/signature

Training Terms & Conditions

Trelleborg Pipe Seals Duisburg GmbH

1. Registration

Please register all participants online at the website <http://www.trelleborg.com/en/Epros/Service/Training/Training-proposals/> (as outlined on page 14). Should you have no possibility for online registration, please register in writing by using the prepared fax form on page 15. Registrations and the names of persons indicated therein are regarded as a binding agreement and are recorded in the order they are received. Should a training event be already booked out, we will contact you immediately; otherwise, you will receive a registration confirmation including detailed information on the training, the meeting place and the hotel.

2. Withdrawal policy

Substitutions

You may at any time appoint a substitute for a person already registered. This can be done at no further charge.

Booking changes

You may at any time change your booking for any or all of the registered participants by choosing another training date or training event. Please inform us in writing. Booking changes can be made at no further charge.

Withdrawals

You may at any time cancel the booking agreement by withdrawing your registration, whether in whole or for individual persons. However, withdrawals must always be in writing. Please note that the following cancellation fees are charged per person withdrawn:

- 7 days before the scheduled start date:
€ 50,- plus VAT
- 1 to 6 days before the scheduled start date:
full attendance fee plus VAT

This cancellation fee is also charged as non-attendance fee in case of non-appearance of a registered participant. In case of withdrawal of your registration, please do not forget to cancel the hotel booking as well.

3. Cancellation of events

We reserve the right to cancel a training course or event in case of lack of interest or too small a number of participants (no later than 5 days before the scheduled start date of the training course of event), or for any other important cause beyond our control (e.g. sudden illness of the trainer, force majeure). Attendance fees already paid will of course be reimbursed. No further liability or damage claims will be accepted, except for injury to life, body or health, and unless due to wilful intent or gross negligence by us. Please remember this for your air or rail tickets.

4. Subject to modification

We shall have the right to make any necessary modifications or variations in terms of contents, methodology or organisation (e. g. due to changes in law) before or during the event to the same extent as they do not imply substantial changes to the announced benefit for the participant. If required (e. g. due to illness, accident), we shall have the right to replace the announced trainer by another person having the same qualification for the programmed subject.

The documents provided for the purpose of the training course or event are prepared to the best and current state of our knowledge. Sentence 3 of Section 3 shall apply mutatis mutandis as to liability for correctness, up-to-dateness, and quality of the documents.

5. Reservation of title

We reserve title to the provided training documents until full payment of the attendance fees. The disclosure or reproduction of the training materials is not permitted, unless with the prior written consent by Trelleborg Pipe Seals Duisburg GmbH.

6. Supply cover

Unless otherwise specified, the indicated attendance fees cover one common lunch for each full seminar day, drinks for breaks, and comprehensive training documents.

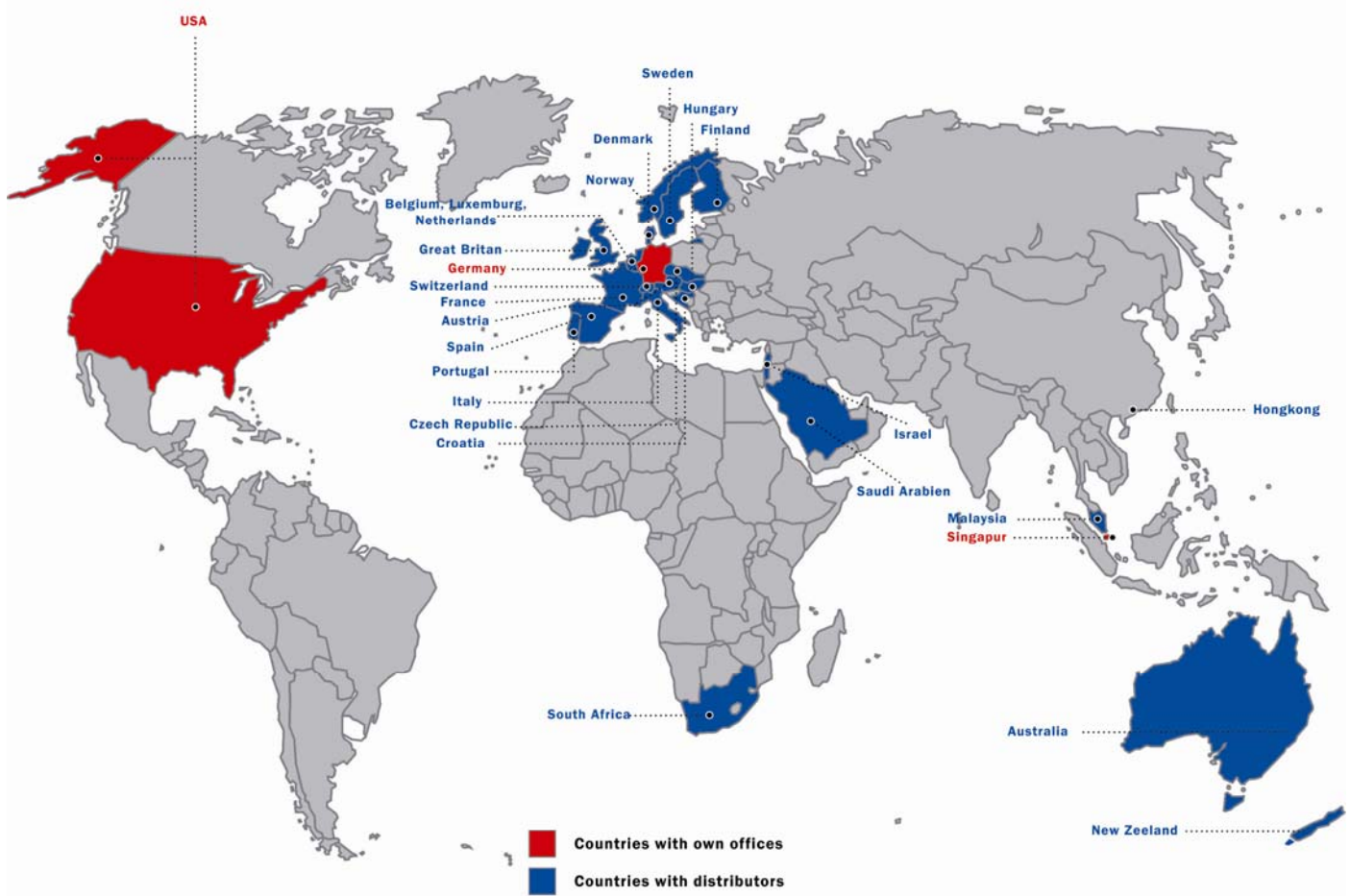
7. Hotel reservations

Should you wish to make a booking with any of the hotels indicated by us, please book your room(s) directly with the hotel using the reservation form provided by us. Please refer to the special rates and conditions agreed with the hotel within the scope of our training events. However, as we cannot exclude the existence of even better special offers or rates, please inquire with the hotel. Since your room bookings constitute a direct contract between you and the hotel without Trelleborg Pipe Seals Duisburg GmbH in between, all participants will have to pay the hotel invoice directly when checking out.

8 Place of performance and jurisdiction

Place of performance and legal venue shall be Duisburg.

Trelleborg Pipe Seals Duisburg GmbH
Dr.-Alfred-Herrhausen-Allee 36, 47228 Duisburg,
Managing Directors: Bill Hagenberg, Gert Smit
VAT code: DE811 206 416, comp. register: HRB 8565



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