



# OVERHEAD LINE **INSTALLATION** TRAINING



**RIBE**  
ELECTRICAL FITTINGS

2-day seminar, max. 12 participants

# OVERHEAD LINE INSTALLATION TRAINING

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**The seminar offers instruction and practical tips on the installation, inspection and maintenance of overhead line fittings.**

The seminar provides the relevant detailed theoretical and practical knowledge necessary for ensuring decades of trouble-free operation under a wide range of mechanical, electrical and climatic conditions:

- Principles
- Demonstrations
- Tensile tests
- Electrical tests
- Practical exercises

The seminar is intended for personnel involved in network and line construction, network operation and service, network planning, asset management, lines, maintenance and equipment for power network operators, network service companies, line construction companies and industrial companies.

Each seminar participant receives a copy of the training documents.

We look forward to seeing you.



2-day seminar, max. 12 participants

## SEMINAR PROGRAMM

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- Starts:** 11.00 a.m.
- Ends:** ca. 01.00 p.m.  
on the following day
- Venue:** **Electrical Fittings Laboratory**  
**Industriestr. 5 · 91126 Schwabach**  
**Germany**

We also offer in-house seminars, customized training on the customer's premises and installation demonstrations in Germany and abroad.

Please note that our laboratories are not available in these cases and video films of the tests are used instead.

We are pleased to include your ideas and wishes regarding individual focuses in the training content.

Please discuss these with us before the training measure.

- ▶ We would be pleased to assist you with the booking of overnight accommodation at the RIBE® site.

# SEMINAR CONTENT



## ➤ 1. TENSION FITTINGS

### 1.1 Tension clamps

- Installation
- Special features of wedge-type / compression clamps
- Tensile test

### 1.2 Helical dead ends

- Installation
- Special features
- Tensile test\*

## ➤ 2. SUSPENSION FITTINGS

### 2.1 Armour grip suspension units

- Installation
- Special features

### 2.2 Spiral suspension clamps

- Installation
- Tightening torques

### 2.3 Bolted suspension clamps

- Installation
- Tightening torques

## ➤ 3. FULL TENSION JOINTS

### 3.1 Compression joints / Crimping Tools

- Trimming conductor, alignment of sleeves, hexagonal crimping choice of compression tools, overlapping / offset compression
- Compression method
- Tensile test\*

### 3.2 Helical splices

- Trimming conductor, assembly of splice subsets, tools, importance of lay and grit
- Tensile test\*

## ➤ 4. NON-TENSION SPLICES AND CONNECTORS

- Installation of parallel groove clamps on conductor
  - old uncleaned conductor
  - cleaned conductor
- Conductor cleaning tools, tightening torques





- High-current tests
  - Effects of installation faults
- **5. MOUNTING DEVICES / ASSEMBLING TOOLS**
    - News
  - **6. VIBRATION DAMPERS**
    - Working principle
    - Positions of dampers on support and tension tower
    - Tightening torques
    - Helical fixing
    - Special features with fiber optic cables (OPGW / OPPC)
  - **7. SPACERS**
    - Types of spacers
      - Spacer dampers
      - Fixed-frame Al spacers
    - Special features, tightening torques
  - **8. HELICAL FITTINGS**
    - Function
    - Application
    - Selection
      - Patch rods
      - Helical splices
      - Armour rods
  - **9. BOLTS**
    - Meaning of bolt grades (e.g. 8.8)
    - Material questions, greasing, galvanizing
    - Tightening torques
    - Torque wrenches
  - **10. STRING HARDWARE AND ARC PROTECTION FITTINGS**
    - Arcing test\*
  - **11. GLOW, STREAMER AND LEADER DISCHARGES**
  - **12. TOUR OF RIBE® MANUFACTURING DEPARTMENT / LABORATORY AND TEST FACILITIES**

2-day seminar, max. 12 participants

# SEMINAR APPOINTMENT

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**Appointment:** 01. - 02. December 2015  
10. - 11. December 2015

**Starts:** 11.00 a.m.

**Ends:** ca. 01.00 p.m.  
on the following day

**Participant:** min. 8 Participants  
max. 12 Participants

**Venue:** Electrical Fittings  
Laboratory  
Industriestr. 5  
91126 Schwabach  
Germany

**The costs of each course amount to 550 euros net (plus VAT) per participant including training material.**

With your booking you accept our general terms and conditions for training courses and seminars which are available on our website at [www.ribe.de](http://www.ribe.de)

- ▶ We would be pleased to assist you with the booking of overnight accommodation at the RIBE® site.



RIBE® Electrical Fittings

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# CONTACT

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We look forward to seeing you.

› Your contact

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**RIBE®** COMPETENCE  
**CONNECTS**