

Basics overhead contact line current collectors

50

Seminar-No. 03.07

DATES & COSTS

10.05.2023

Nuremberg

16.11.2023

Nuremberg

Length:

1 Day

Fee:

700,00 €

incl. lunch and certificate of participation
plus VAT

TARGET GROUP

- Technical project manager
- Employees of the departments
- Railway vehicle manufacturer
- Railway vehicle operators
- Career changers from industry

LANGUAGES



DESCRIPTION

This seminar provides a general overview of the contact line systems of electric railways in Europe. Starting with the railway energy generation of 16.7 Hz via the railway energy distribution and railway energy supply, you will also receive an overview of the design of overhead contact line systems.

The pantograph, which acts as a counter-contact to the overhead line, is explained with regard to its basic structure, the various pantograph profiles and its mode of operation. Another focus is the function of the pantograph lowering device and the operational measures when the automatic pantograph lowering device is activated.

Furthermore, the exemplary arrangement of pantographs on multi-system locomotives and the functioning of the electrical separation between the power systems are explained.

SEMINAR CONTENTS

DAY 1 09.30-17.00

- Structure of the European overhead contact line systems
- Interaction of overhead contact line and pantograph
- Current collector designs
- Current collector mode of operation
- Automatic lowering device
- Pantograph arrangement on multi-system locomotives