



Training Description

Project Planning for Controlled Drives (VSD)

The Training is for anyone projecting and selecting drives and frequency inverters. It focuses on the dimensioning of controlled drives and frequency inverters (variable speed drives) – in control cabinet design as well as for decentralized installation with and without encoder, and in field weakening range operation. Additional topics are standard applications such as hoists or trolleys and the differentiation from other systems.

Target group: Construction engineers, project planners

Seminar objectives:

Participants will be able to:

- project a controlled drive
- assess the characteristics and limits of various inverters as well as the effects and factors required for evaluating the project planning for a drive
- identify the areas of application for frequency inverters

Contents:

- Calculation example for a drive
- Overview and selection of the inverters
- Differentiation control cabinet technology – decentralized technology
- Differentiation from other drive systems
- Characteristics of controlled drives
- special characteristic curves, hoist operation
- Connections of the inverter
- Inverter accessories
- EMC-compliant installation
- V/f, VFC, CFC, Speed control, etc.
- Tasks and practical examples
- Software tools

Requirements: "Project planning for non-controlled drives" seminar or equivalent knowledge
Technical calculator

Methods: Educational dialogs, practical exercises

Location: SEW

Duration: 3 days