

Basics of Drive Technology - AC Converters (WT-GAT-U)

Beskrivning/mål

Frequency converters are increasingly being used in electrical drive technology.

These allow variable speed operation as opposed to mains-fed operation.

A basic knowledge of converters is therefore necessary for planning, commissioning and maintaining drive systems.

This training session introduces you to this subject. It gives you a basic understanding of what you need to know to achieve optimal learning results from SITRAIN courses at the training center.

Målgrupp

Decision makers, sales personnel

Project managers, project assistants

Engineers, programmers

Startup engineers, configuration engineers

Service personnel

Operators, users

Maintenance personnel

Innehåll

- Output ranges and areas of application of frequency converters
- Design of a frequency converter: rectifier, DC link and inverter
- Braking resistor, energy recovery, multi-motor systems with DC link connection
- Inverters: stator field generation, power transistors, pulse-width modulation
- Motor control:
 - V/f control
 - Vector control without speed measurement
 - Vector control with speed measurement
- Operation with constant torque and field weakening
- Data for continuous operation and for short-time duty with overload
- Additional components: fuses, contactors, filters and reactors
- Overview of typical interfaces, input and output signals
- Overview of operation and parameter assignment

Förkunskaper

None

Typ

Webbutbildning

Antal dagar

0,3 dagar

Språk

en

Pris

0 SEK