

## AC Drive Basics Web based Training / 交流驱动器基础网络课程 (W1202)

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### Objectives

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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.

### Target Group

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- Decision makers, sales personnel
- Project managers, project assistants
- Engineers, programmers
- Startup engineers, configuration engineers
- Service personnel
- Operators, users
- Maintenance personnel

### Content

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- 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

### Prerequisites

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None

### Type

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E-Learning

### Duration

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6 hours

### Language

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zh

### Fee

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300 CNY