

## SINAMICS and SIMOTICS - System Overview (DR-SYS)

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### Short Description

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In this course, you will learn about the different versions of the SINAMICS family of converters and the matching SIMOTICS motors. You will be able to classify the various applications, and make a first selection of the components.

This course is also available as an [online training](#).

### Objectives

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You are involved in the marketing or engineering of automation and drive technology. With SINAMICS and SIMOTICS, Siemens offers a comprehensive range of converters and motors. These can be used for basic applications such as pumps and fans - as well as for conveyor technology and cranes - all the way up to highly dynamic production machines.

In addition to the most important fundamentals, this training course provides you with an overview of the Siemens portfolio.

After the course, you will know the different versions of the SINAMICS family of converters and the matching SIMOTICS motors. You will be able to classify the various applications, and make a first selection of the components.

### Target Group

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Planners, decision makers  
Sales personnel

### Content

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Mode of operation and design of converters:

- Infeed, DC link, power unit
- Closed-loop control, communications, supplementary functions

Differences between line and converter operation

Basic performance converters:

- SINAMICS V20, V90

General performance converters and induction motors:

- SINAMICS G110, G120, G130, G150, G180
- SIMOTICS SD, GP, FD, TN

High performance converters and motion control motors:

- SINAMICS S110, S120, S150
- SIMOTICS S, M, T

Introduction to DC converters and medium voltage converters

Selection of low-voltage drives using:

- Application matrix and catalogs
- DT Configurator and SIZER software

Practical exercises for selecting and configuring drives with SINAMICS converters and SIMOTICS motors

### Prerequisites

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Basic knowledge of electrical engineering

### Note

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You can extend your know-how when it comes to configuring and engineering in the following training courses: DR-ASM-PL, DR-G12-PL, DR-MCM-PL, DR-S12-PL.

### Type

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Face-to-face training

### Duration

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3 days

### Language

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