

SCE Course Contents

Siemens Automation Cooperates
with Education (SCE) | 01/2020

[siemens.com/sce](https://www.siemens.com/sce)

2 days

Frequency Converter SINAMICS G120 on PROFINET with SIMATIC S7 and TIA Portal

Prerequisites

- Basic knowledge of Windows PC
- Advance Course SIMATIC S7 with TIA Portal

SCE Learn-/Training Documents

- Frequency Converter G120 on PROFINET with SIMATIC S7-1500 module: 062-101

Contents

- Presentation of the SINAMICS frequency converters from SIEMENS
- Drive configuration with the SIZER software
- Commissioning and parameter assignment of these converters with SINAMICS Startdrive
- Structure of the parameter assignment with authorization levels
- Parameter assignment of SINAMICS G120
- Commissioning with asynchronous motor
- Troubleshooting
- Connection of a frequency converter to a SIMATIC S7 PLC via PROFINET

- Communication structure of PROFINET
- Commissioning a SIMATIC S7 PLC as an IO controller
- Setting up the frequency converter as an IO device on PROFINET
- Remote control of the frequency converter via PROFINET
- Remote parameter assignment of the frequency converter via PROFINET
- Remote diagnostics for the frequency converter via PROFINET
- Parameter assignment with the SINAMICS Startdrive software in the TIA Portal
- Optional: Motion Control technology objects for S7-1500

Note:

These Learn-/Training Documents are available in the SCE Internet:

[siemens.com/sce/module](https://www.siemens.com/sce/module)

This program serves as the reference and guideline for the course, in which we place great value on practical exercises and application examples.

We will of course be pleased to cover any individual suggestions, requests and questions from participants during the event.

Additional SCE courses are available in the SCE Internet:

[siemens.com/sce/courses](https://www.siemens.com/sce/courses)

Increase your automation technology expertise and inspire your students.

