

## PROGRAMMING COURSE 2 SIMATIC TIA PORTAL - ONLINE

Programming, frequency converter, SCL, WinCC, communication

### DURATION

5 Days

### CONTENT

- Working with the digital twin (SIMIT)
- FCs, FBs, and multi-instances
- Handling of complex data structures
- Libraries for reusable blocks
- Configuration and commissioning of a simulated virtual model with PROFINET
- Integration of external devices in PROFINET
- Parameterization of an inverter and commissioning on PROFINET
- Configuring the operating device with WinCC
- Managing data in recipes
- Extended functions of WinCC
- Creating and testing complex SCL programs
- Sequence control with GRAPH
- Ethernet communication
- Basics of functional safety

### TARGET GROUP

Programmers, commissioning engineers, project planners, advanced service personnel

### REQUIREMENTS

Knowledge of Programming Course 1 SIMATIC TIA Portal and SIMATIC S7.

### SOFTWARE / DEVICES

We recommend an Internet connection with at least 16 Mbit, two monitors and a headset. Practical exercises are carried out browser-based on a virtual plant model.

### OUR RECOMMENDATION

Take the examination for Automation Technician / Project Planning TIA Portal according to ZVEI. We moreover offer additional advanced modules focusing on engineering, operator control and monitoring, communication and drive technology.

### Events

## YOUR PERSONAL CONTACT PERSON

### Hochheim am Main

At our headquarters in Hochheim we advise you for our locations **Berlin, Braunschweig, Düsseldorf, Hamburg, Hochheim am Main** and **Mannheim**.



Monika Jatta  
Head of training organization  
+49 6146 828280  
[kontakt@grollmus.de](mailto:kontakt@grollmus.de)  
[www.grollmus.de](http://www.grollmus.de)

### München

At our headquarters in Munich we advise you for our locations **Dresden, Freiburg, Graz, Innsbruck, Leipzig, Linz, München, Nürnberg, Stuttgart, Zürich** und **Wien**.



Kristina Hocke  
Head of training organization  
+49 89 23238870  
[kontakt-muenchen@grollmus.de](mailto:kontakt-muenchen@grollmus.de)  
[www.grollmus.de](http://www.grollmus.de)