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Digital Factory
Digital Industry Academy
Customer service
90475 Nuremberg, Germany
Tel.: +49 911 895-7575
E-mail: sitrain.de@siemens.com

Austria:
Tel.: +43 51707-23797
E-mail: sitrain.at@siemens.com

Switzerland:
Tel.: +41 848 822-800
E-mail: training-industry.ch@siemens.com

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A man in a blue button-down shirt stands next to a rack of Siemens SITRAIN personal training equipment, gesturing towards it. He is speaking to another man who is seated at a desk, looking at a computer monitor displaying a software interface. The desk also has a keyboard, a mouse, and a control panel with a red emergency stop button. The background shows a window with blinds.

SIEMENS

Ingenuity for life

SITRAIN personal – SIMATIC PCS 7 training

SITRAIN – Digital Industry Academy

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Time for learning

SITRAIN – Digital Industry Academy

Today, the demands on your knowledge are as varied and dynamic as your profession. You are always learning more and for longer periods of time, both for your work and your career. Advancing digitalization is accompanied by new topics, and is also changing the way you absorb and process knowledge. With SITRAIN – Digital Industry Academy, we offer you the knowledge source you need, precisely tailored to when, where, and how you want it.

The time for learning is now. But how do you access expert knowledge? Where can you quickly find exactly the information you need for your project? How do you determine for yourself when and where you can expand your knowledge?

That's what SITRAIN – Digital Industry Academy is for. Here you'll find everything you need to know to be successful in your profession and to develop your skills in a targeted manner. It features documents that are available at any time, sample applications, FAQs and the Online Support App, a growing community with direct contact to experts, and an extensive range of SITRAIN training courses. These courses take advantage of advancing digitalization to constantly expand the content and offer new training methods.

Knowledge prepared for today's learning

Because knowledge is so diverse and everyone has their own rhythm and needs, SITRAIN is divided into three areas. This means that you will always be able to find the knowledge that suits you best.

Knowledge that you can always find

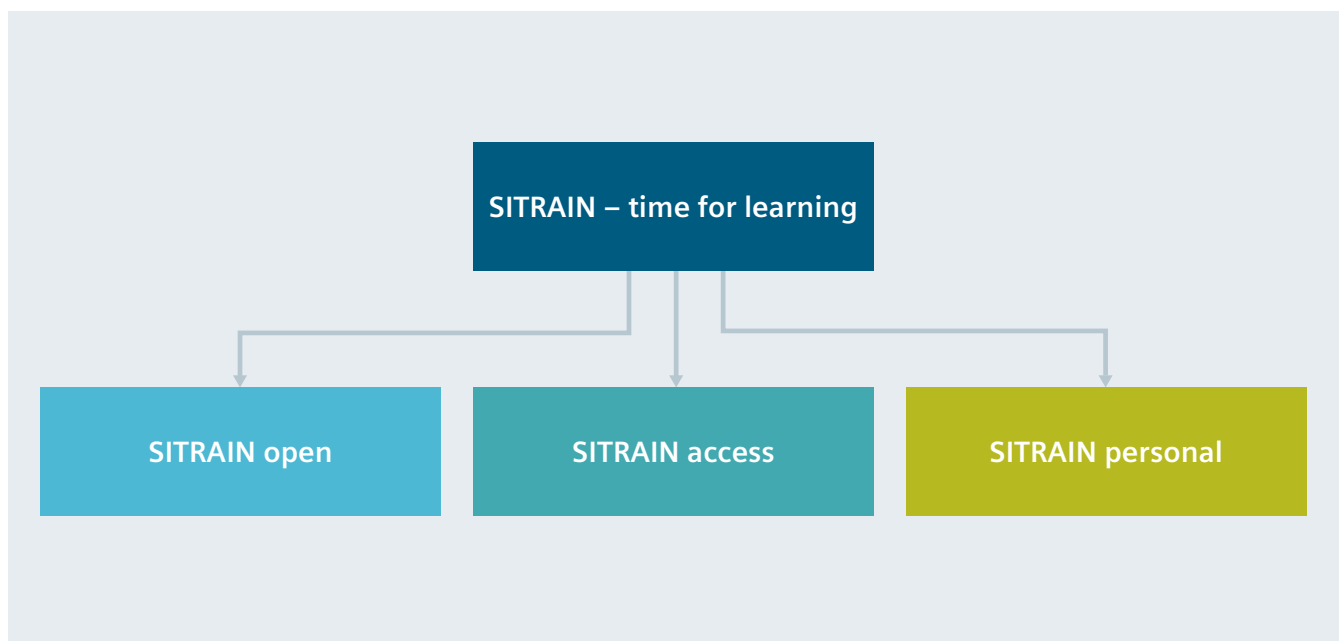
SITRAIN open bundles useful information, valuable data, and up-to-date expert knowledge on Siemens products for industry. Search at any time, find everything, and always the right thing.

Knowledge that helps you move forward

SITRAIN access is your personal way to tap into skillfully prepared and tested knowledge. A range of digital training courses and a constantly growing community help with your knowledge building.

Knowledge that you can experience

SITRAIN personal brings you together with experienced and certified experts from Siemens – in your company or in our classrooms with training devices.

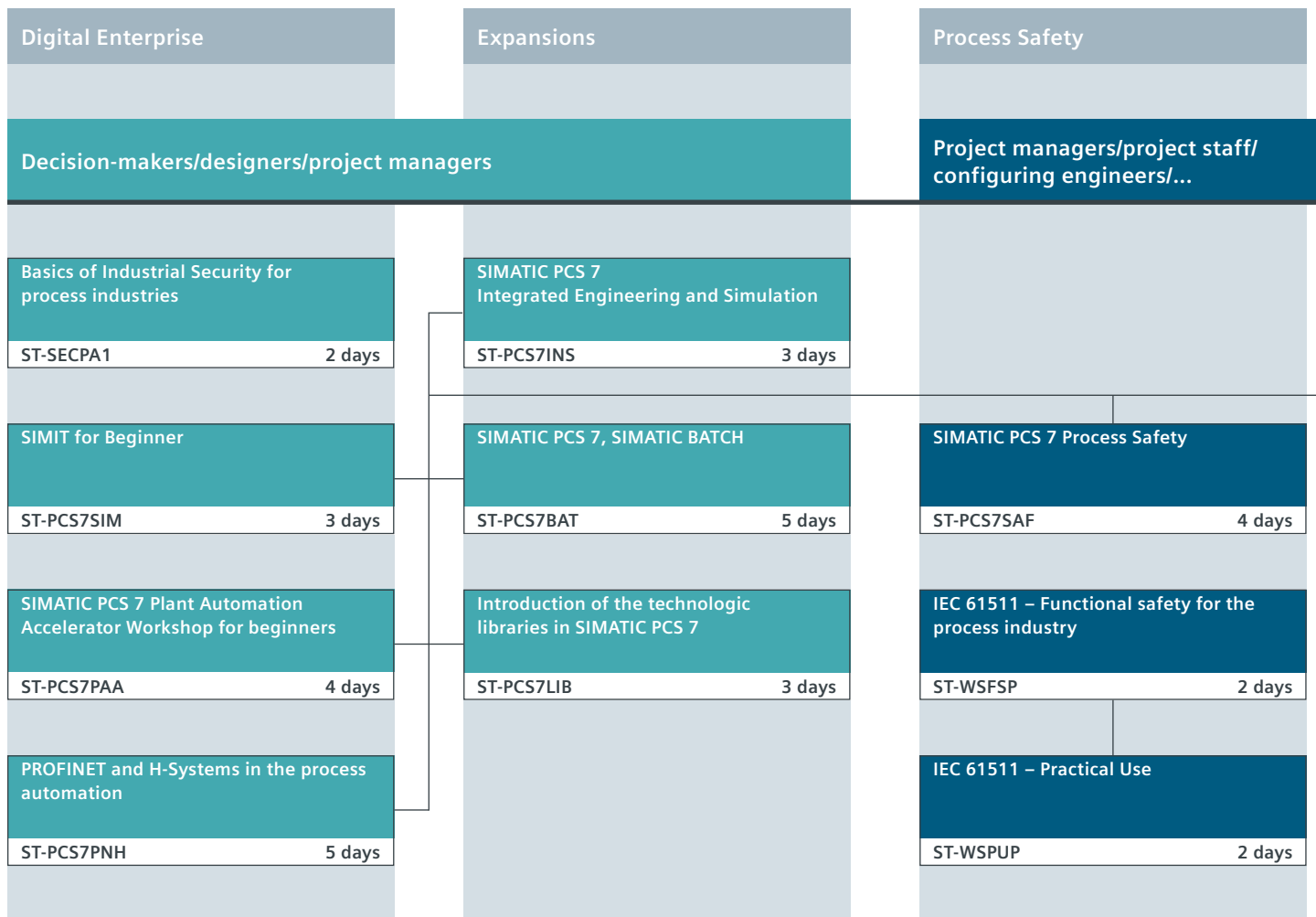


SITRAIN personal for SIMATIC PCS 7

With our range of training courses for SIMATIC PCS 7, you will familiarize yourself with the variety of engineering possibilities for the process control system in a structured manner. This lets you successfully pursue your path to becoming a digital enterprise and implement your digital transformation.

Performance for humans, machines, and processes

With the SIMATIC PCS 7 process control system, you can respond quickly to constantly changing market demands. Integrated safety concepts enhance the awareness of plant operators and ensure that they're in control of their processes at all times. You'll benefit from a high level of plant availability, security of investment, and future-proof technology along with a lower total cost of ownership. Digitalization in the process industry opens up new opportunities for more flexible manufacturing and meeting individual customer requirements.

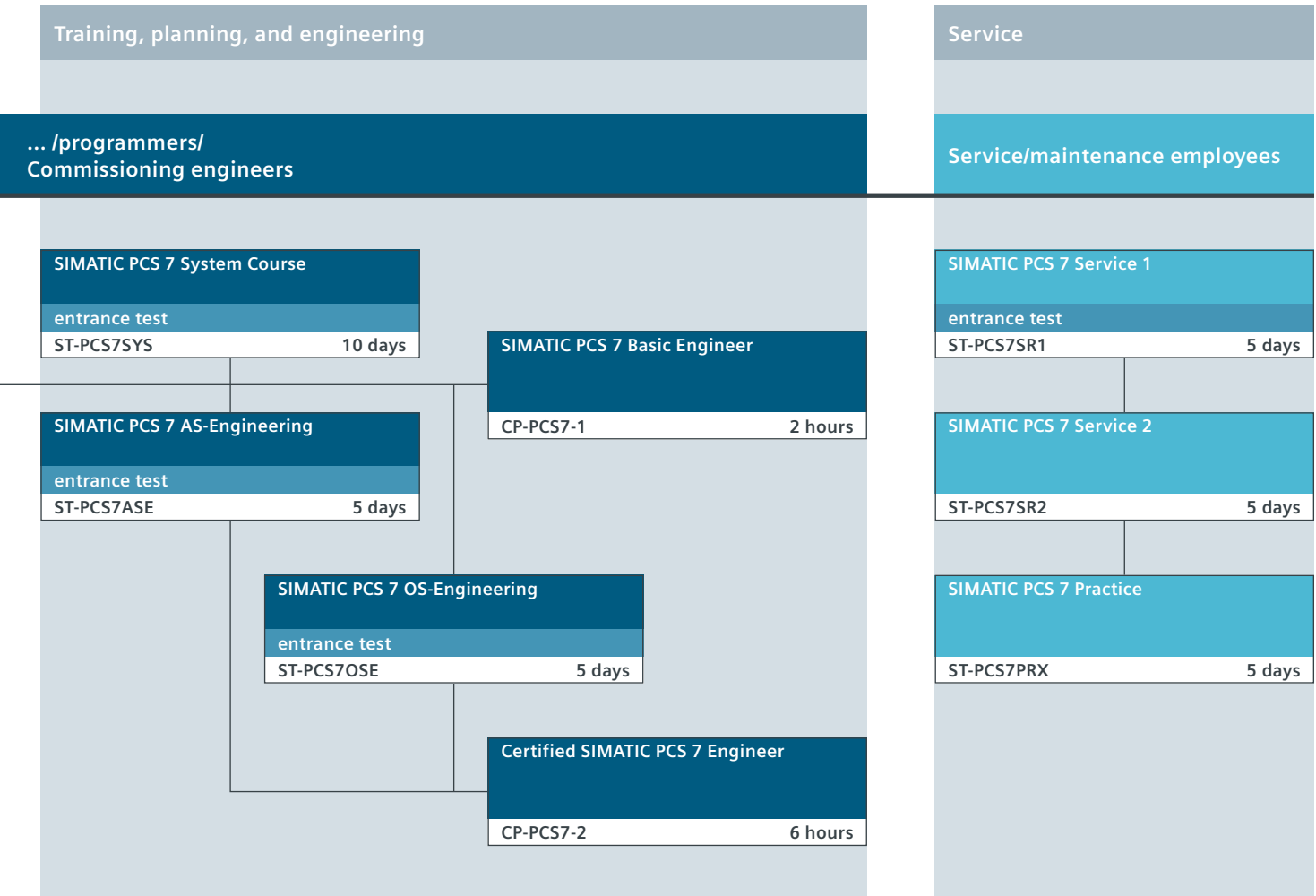


Supporting employees

Efficient plant use depends on more than just integrated safety concepts and flexible modules. A plant functions only as well as it was configured to perform. The digital transformation not only creates new opportunities, it also means new requirements for employee training.

The SITRAIN professional development courses let you design, operate, and expand your plant more efficiently. The courses provide fundamental information and detailed knowledge of SIMATIC PCS 7 – for both beginners and advanced users.

All SITRAIN courses are also strong on practical exercises, so you can train intensively and directly on the SIMATIC PCS 7 practice devices. New courses help you put your Digital Enterprise into action using Siemens components for process automation.



Course contents at a glance

| Technology | Course title | Order code | Contents |
|---|--|--------------------------------|--|
| SIMATIC PCS 7 Digitalization in Process Automation | SIMATIC PCS 7 Integrated Engineering and Simulation | ST-PCS7INS (3 days) | <ul style="list-style-type: none"> • Overview of products and typical applications for integrated engineering for designing, automating, and simulating plants in the process industry • Brief exercises for getting familiar with the software packages and running through the workflow to derive automation solutions in PCS 7 and simulation models in SIMIT based on design data in COMOS |
| | SIMATIC PCS 7 Plant Automation Accelerator Workshop for Beginners | ST-PCS7PAA (4 days) | <ul style="list-style-type: none"> • Overview of application opportunities and functions of the SIMATIC PCS 7 Plant Automation Accelerator (PAA) • Design automation functions from hardware to software in the PAA and import them effectively into SIMATIC PCS 7 |
| | SIMIT for Beginner | ST-PCS7SIM (4 days) | <ul style="list-style-type: none"> • Overview of functions and libraries in the SIMIT simulation software • Step-by-step draft of simulations/models for testing SIMATIC PCS 7 automation software from the signal level to basic process simulations in order to support virtual commissioning |
| | Basics of Industrial Security for process industries | ST-SECPA1 (2 days) | <ul style="list-style-type: none"> • Overview of the Defense-in-Depth plant protection concept • Overview of potential countermeasures to be used in the various areas of Defense-in-Depth |
| SIMATIC PCS 7 Overview courses | SIMATIC PCS 7 System Overview | ST-PCS7UEB (2 days) | <ul style="list-style-type: none"> • Comprehensive system overview of SIMATIC PCS 7 process control system • Short, basic, but detailed exercises on engineering with SIMATIC PCS 7 |
| | Basics of Industrial Security for process industries | ST-SECPA1 (2 days) | <ul style="list-style-type: none"> • Overview of the Defense-in-Depth protection concept |
| | SIMATIC Workshop PCS 7 V9.0 Upgrade | ST-PCS7V90 (3 days) | <ul style="list-style-type: none"> • Designed for SIMATIC PCS 7 experts, designers, configuration personnel, and maintenance employees • Overview of new features |
| | SIMATIC PCS 7 Integrated Engineering and Simulation | ST-PCS7INS (3 days) | <ul style="list-style-type: none"> • Overview of products and typical applications from integrated engineering to virtual commissioning in the process industry • Exercises focused on getting familiar with the software and running through the workflow to derive automation and simulation from a plant's design data |

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|---|----------------------------------|-------------------------|---|
| SIMATIC PCS 7 Design and Configuration Courses | SIMATIC PCS 7 System Course | ST-PCS7SYS (10 days) | <ul style="list-style-type: none"> • Create a plant automation solution using SIMATIC PCS 7, from a blank page to the operating and monitoring level • Rational and structured engineering with the many tools available in SIMATIC PCS 7 • Blended learning course combining classroom work and several Web-based training sessions |
| | SIMATIC PCS 7 AS-Engineering | ST-PCS7ASE (5 days) | <ul style="list-style-type: none"> • Technological top-down engineering using the latest type-instance concepts like single control-unit types, logic matrix, SFC types, and equipment modules • Improve engineering efficiency |
| | SIMATIC PCS 7 OS-Engineering | ST-PCS7OSE (5 days) | <ul style="list-style-type: none"> • Extending knowledge for configuring the operating levels of control plants using SIMATIC PCS 7 process control technology software • Focus on the special features of engineering for OS multi-user systems |
| | SIMATIC PCS 7 Basic Engineer | CP-PCS7-1 (90 min) | <ul style="list-style-type: none"> • Focus on demonstrating theory acquisition/basic knowledge of SIMATIC PCS 7 engineering • Certificate of completion as proof of qualification |
| | Certified SIMATIC PCS 7 Engineer | CP-PCS7-2 (6 hrs) | <ul style="list-style-type: none"> • Focus on demonstrating theory acquisition and practical ability/advanced knowledge of SIMATIC PCS 7 • Certificate of completion as proof of qualification |
| SIMATIC PCS 7 Service | SIMATIC PCS 7 Service 1 | ST-PCS7SR1 (5 days) | <ul style="list-style-type: none"> • Basic knowledge of SIMATIC PCS 7 process control system and introduction to SIMATIC PCS 7 asset management processes • Focus on typical maintenance personnel skills like troubleshooting, replacing individual components, and obtaining diagnostic data • Plant care, maintenance, and servicing using SIMATIC PCS 7 control system tools |
| | SIMATIC PCS 7 Service 2 | ST-PCS7SR2 (5 days) | <ul style="list-style-type: none"> • Focus on integrating and parameterizing field devices in a SIMATIC PCS 7 system • Software fault rectification and basic expansions to existing plant functions • Maintenance and expansion of plant using SIMATIC PCS 7 control system tools |
| | SIMATIC PCS 7 Practice | ST-PCS7PRX (5 days) | <ul style="list-style-type: none"> • Training in successfully troubleshooting a modular training plant using real SIMATIC PCS 7 processes • Seek, analyze, and fix errors • Focus on practical aspects |

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| SIMATIC PCS 7 Process Safety | SIMATIC PCS 7 Process Safety | ST-PCS7SAF (4 days) | <ul style="list-style-type: none"> • Creation of a fail-safe application compliant with SIMATIC PCS 7 using CFC and Safety Matrix • Practical exercises on fail-safe CPU 410-5H automation systems with fail-safe communication (PROFIsafe) and signal assemblies |
| | IEC 61511 – Functional safety for the process industry | ST-WSFSP (2 days) | <ul style="list-style-type: none"> • Introduction to functional safety standards using real examples • Potential architectural solutions to safety-relevant tasks • All factors that must be considered when creating hardware and software to meet the requirements of a particular SIL (safety integrity level) from the perspective of functional safety |
| | IEC 61511 – Practical Use | ST-WSPUP (2 days) | <ul style="list-style-type: none"> • Practical applications of IEC 61511 • Selected typical applications and sample solutions • Practical application |
| SIMATIC PCS 7 Expansions and Technology | Introduction of the technologic libraries in SIMATIC PCS 7 | ST-PCS7LIB (3 days) | <ul style="list-style-type: none"> • Overview of key benefits of Advanced Process Library (APL) and Industry Library (IL) • Selected typical applications like integration of SINAMICS G120 drives, dosage functions, and control optimization using the APL • Implementation of parameter sets using the parameter modules in the SIMATIC PCS 7 Industry Library • User-centered graphic functions with the Advanced Process Graphics Library |
| | PROFINET and H-Systems in the process automation | ST-PCS7PNH (5 days) | <ul style="list-style-type: none"> • Fast and effective design, configuration, parameterization, and commissioning of the SIMATIC PCS 7 components on a PROFINET fieldbus using PROFINET blueprints • Handling, configuration, commissioning, diagnostics, and fault clearance on the high-availability SIMATIC S7-400H automation system in the context of process automation with SIMATIC PCS 7 |
| | SIMATIC PCS 7, SIMATIC BATCH | ST-PCS7BAT (5 days) | <ul style="list-style-type: none"> • Basic terms from the BATCH world and interface between SIMATIC BATCH and the automation components • Creating standards-compliant recipes, batch planning, and batch control using the opportunities provided by SIMATIC BATCH and program administration |