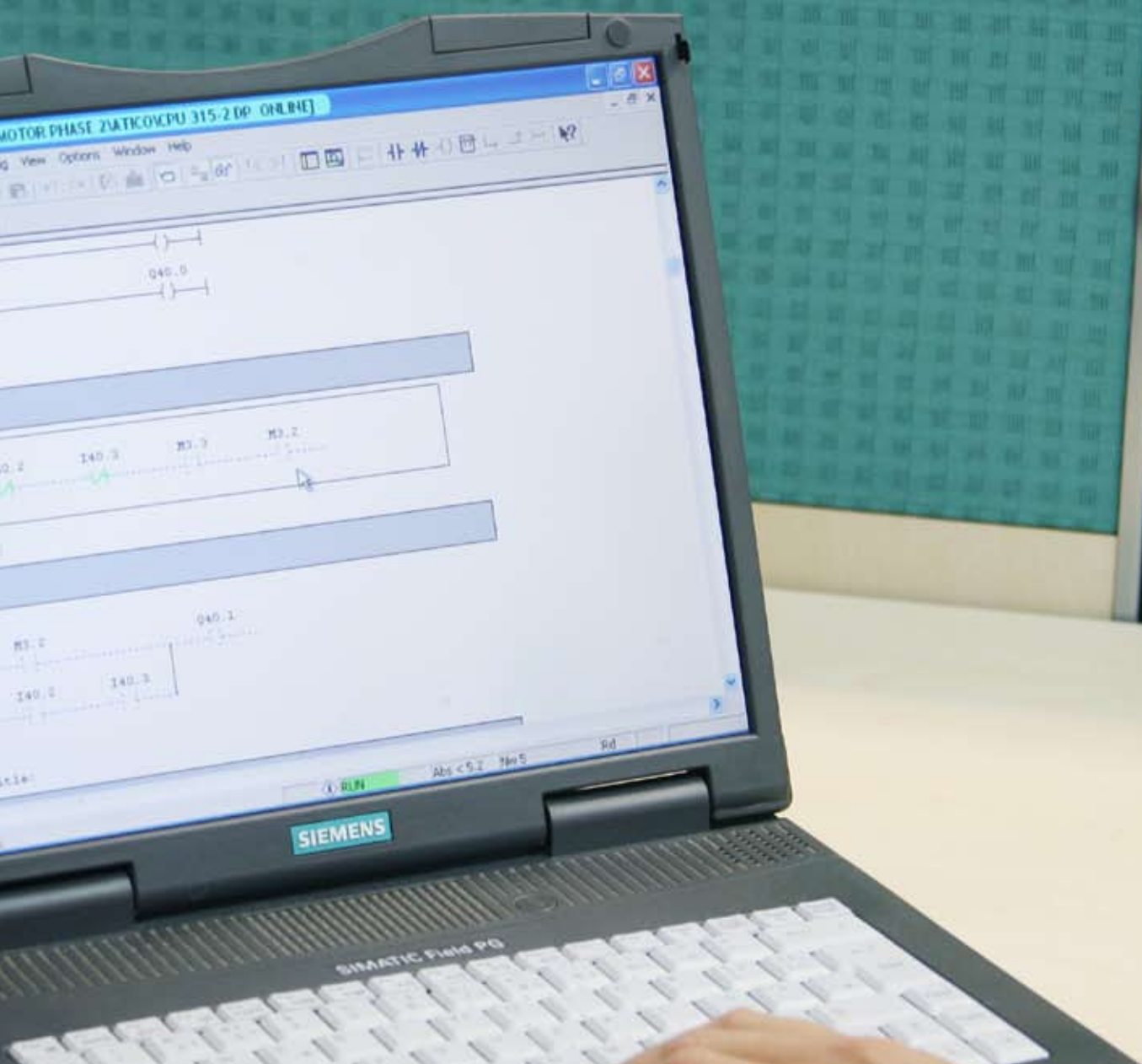


Practical know-how – Straight from the manufacturer

Service & Training for Industry Automation and Drive Technologies



Service and Training

Industry Automation and Drive Technologies

SIEMENS



Qualifications at first hand

As the market leader in automation, Siemens offers you a comprehensive range of advanced training measures under the name SITRAIN®. Whether you're looking for the basics or more advanced and specialist knowledge: our range covers courses and seminars as well as online and offline learning media. With SITRAIN you rely on the manufacturer's entire expertise every time.

Clear benefits in everyday automation

SITRAIN courses authoritatively impart knowledge of the latest trends in automation – at first hand. This gives you and your personnel assurance and a superior edge in decision-making and in turn has a tangible positive effect on job satisfaction and motivation.

The training courses make sequential procedures and interrelationships transparent and so create the essential foundation for best practice in using and coordinating products and systems. In this way SITRAIN makes a decisive contribution towards increasing productivity in your plants:

- Optimization potential can be detected and implemented quickly and efficiently and expensive planning mistakes can be avoided right from the start.
- The time required for configuring and commissioning can be significantly reduced.
- Customization to new market demands can be implemented faster and more flexibly.
- The production sequence can be optimized and standstill times reduced thanks to selective fault diagnostics and expert fault correction.
- Familiarization times in the case of changes to technology or personnel can be significantly reduced.
- A training course culminates in a certificate and makes it possible to guarantee quality standards in production (required by DIN EN ISO 9001).

Knowledge as a factor of success

Against the backdrop of break-neck technological progress, up-to-date knowledge is becoming more and more of a decisive success factor. Qualified employees have long been one of the most important resources of any company.

Industrial Automation

PROGRAMMING					
PLC with Full integration (TIA)			HMI OPs and SCADA		DCS
PLC Level I	PLC Level II	PLC Level III	WINCC Flexible	WINCC	PCS7
ST-PRO1	ST-PRO2	ST-PRO3	ST-WCCFSYS1	ST-BWINCCS	ST-PCS7SYS

SERVICE				
PLC with Full integration (TIA)			Network	Instrumentation
PLC Level I	PLC Level II	PLC Level III	Profibus	PDM
ST-SERV1	ST-SERV2	ST-SERV3		ST-PDM

The SITRAIN Certification Program

Our globally standardized SITRAIN Certification is tailored to current industry requirements. You will undergo a practical examination to test your knowledge of PLC with SIMATIC S7 as well as of its embedding in the plant. The skills required to commission a drive and a touch panel will also be put to the test along with your ability to integrate distributed I/O.

Upon passing the approximately 5-hour-long test, you will be presented with our globally standardized "Certificate", which is valid for 3 days. Upon expiry of this period, recertification is necessary. This ensures that participants are always up to date with the state of the art. This, in turn, acts as a kind of security for the employer, who is obliged to provide proof of the level of employee qualification according to DIN EN ISO 9001.

Service, maintenance and commissioning in automation	Configuring and programming in automation
Siemens Certified Service Technician Level 1	Siemens Certified Programmer
Siemens Certified Service Technician Level 2	

Drive Technologies

PROGRAMMING			
CNC	Production machines	Regular drives application	
SINUMERIK 810D/840D OPERATION and PROGRAMMING	SIMOTION Programming	MICRO MASTER (4) Level I	MICRO MASTER (4) Level II
NC-84D-B	MC-SMO-SYS	SD-MM4SYS	SD-MM4-AUF

SERVICE			
CNC		Regular drives application	
SINUMERIK 810D/840D SERVICE AND STARTUP	SINUMERIK 840D SOLUTION LINE SERVICE AND STARTUP	SINAMICS S120 SERVICE AND STARTUP	Master Drive Vector Control
NC-84DSIP	NC-84SL-SIP	DR-SNS-SI	SD-MD-SI



The most comprehensive range of training courses on the subject of automation

With more than 300 different courses, SITRAIN covers the entire range of Siemens products and systems in the area of automation engineering – including special advanced training measures on different sector and plant solutions with components from Siemens Automation and Drives.

From the practical world for the practical world

In selecting our training personnel, we make sure they have a practice-oriented background and sound experience of their field and of teaching methodology – because only practice-based training with the corresponding equipment makes it possible to apply theoretical knowledge in an expert way. For this reason course participants simulate actual situations on specially developed training devices.

Available around the world – and near you

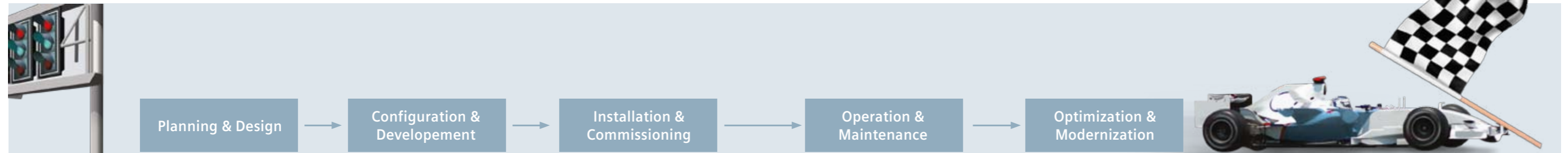
We provide training at more than 200 locations in over 60 countries. Our global presence offers you know-how on a local basis – wherever you want your training. We can even hold our training courses in your vicinity on request – or right on your premises. That's because flexibility is written large with SITRAIN – even when it comes to scheduling courses. It goes without saying that in our courses we not only take account of the local language but also of regional requirements and local attitudes to learning.



Our range of topics at a glance

Drives <ul style="list-style-type: none"> • AC converters/inverters: SINAMICS, SIMODRIVE, MASTERDRIVES, MICROMASTER, SIMOVERT MV, S, D • DC converters: SIMOREG 	Safety engineering – Safety Integrated <ul style="list-style-type: none"> • SIMATIC S7 H/F/FH systems • SINUMERIK CNC automation systems • Electromagnetic compatibility • Safety engineering standards • Safety sensors
Automation systems/ Totally Integrated Automation <ul style="list-style-type: none"> • SIMATIC industrial automation systems (SIMATIC S5, S7, TDC, FM modules) • PC-based Automation/Embedded Automation • SIMATIC HMI human machine interface systems: SIMATIC ProTool/Pro, WinCC/WinCC flexible • Transportation systems • Mechatronics qualification system 	Low-voltage switchgear/ Totally Integrated Power <ul style="list-style-type: none"> • SIRIUS industrial switchgear • Low-voltage energy distribution: <ul style="list-style-type: none"> – SIVACON switchgear, busbar trunking systems, and cubicle systems – SENTRON switching and protecting devices for energy distribution – Software for energy distribution/ Totally Integrated Power
CNC automation systems and motion control <ul style="list-style-type: none"> • SIMOTION Motion Control System • SINUMERIK CNC automation systems 	Sensors, measuring and testing systems <ul style="list-style-type: none"> • Image processing systems • RFID systems • Safety sensors
Industrial communication <ul style="list-style-type: none"> • SIMATIC NET communication systems: AS-Interface, Industrial Ethernet, PROFINET, industrial wireless communication, PROFIBUS, SINAUT, OPC 	Electrical installation systems <ul style="list-style-type: none"> • Product training courses: <ul style="list-style-type: none"> – ALPHA distribution boards and terminal blocks – BETA modular installation devices – GAMMA building management system – DELTA switches and socket outlets • KNX/EIB system training courses
Process automation <ul style="list-style-type: none"> • SIMATIC PCS 7 process control system • Process analytics • Control room equipment 	

Services in Life Cycle



Given the green light worldwide with comprehensive Lifecycle Services

Perfectly set up, with our racing line defined and warm-up lap complete – our international Service & Support community is ready for the off. Equipped with the optimum service strategy, perfectly geared towards all the phases of the life cycle of the plant. With motor homes in over 100 countries. And an excellent pit-team standing by around the clock, all over the world.

-  **Online Support** – always the first step to solution
-  **Technical Support** – competent answers to technical questions
-  **Technical Consulting** – we optimize your concept and design
-  **Spare Parts and Repairs** – a maximum uptime for your operation
-  **Field Service** – our experts are close to you worldwide
-  **Software Engineering** – assures the quality during implementation
-  **Optimization and Modernization** – maintain the long-term value of your investment

Online Support – diverse and competent

Our Online Support provides you with reliable expertise and up-to-date information about products and systems from Siemens Industry for Automation and Drive Technology. But that's not all by any stretch of the imagination. For example, you can find out about new developments quickly and conveniently via our Newsletter. You can define settings for your personal preferences using a personalization tool.

Field Service: ensuring that everything runs smoothly

Covering everything from troubleshooting to service contracts, the Field Service provides commissioning and maintenance related services, ensuring that your machines and plants remain up and running whatever happens.

Technical Support: competent answers

The Technical Support specialists provide advice and assistance with queries relating to the functions and operation of our products and systems. Whether you submit your query via a Support Request, by telephone or fax – you can contact Technical Support at any time.

Engineering Support: always at your side

Do you require competent support that goes beyond the design stage? Our Engineering Support can provide you with the ideal solution. Thanks to our wide-ranging systems expertise, we can guide you through the entire automation project, from the implementation and commissioning stages to on-site optimization based on tailor-made solutions.

Technical Consulting: professional systems expertise

The Technical Consulting service assists you with the planning and design of your projects. Whether it be a detailed actual analysis, definition of targets and consultancy, detailed answers to product and system-related queries or developing the technical solution in its entirety, we can offer you the right support for every task.

Optimization and Modernization: for increased productivity

During the operating period of machines and plants there are frequent opportunities to boost productivity, extend the life cycle of the plant, stay on top of the latest technical developments or save costs. We can systematically track down this potential for you and offer you a whole range of services relating to optimization and modernization.

Spare Parts: ensuring optimum availability

Ever greater availability is demanded of plants and systems in all sectors around the world. The financial repercussions of not having the all-important spare part to hand can be costly. We will support you with our global network and optimized supply chains to ensure that you don't grind to a halt.

Repairs: quick and cost-efficient

Downtime causes annoyance in the factory, not to mention unnecessary costs. We will help to keep both to a minimum and offer you repair options right around the world. How you stand to benefit: defects can be repaired before they escalate into greater problems.

Service Contracts: Tailored to suit your needs

We offer customized service agreements with a variety of optional services, designed to meet your requirements: high plant availability and operational reliability, signed and sealed.

On call maintenance contract packages:

1- Bronze Package:

(8) days corrective maintenance visits or equivalent training courses.

2- Silver Package:

(16) days corrective maintenance visits or equivalent training courses

Note: Mixing up of training and services is possible.

Customer benefits

- Agreed response time.
- Shorten call handling cycle and approvals.
- Service contract value could be used for both training courses booking or on site support.
- Cost saving relative to normal rates.

Service Contracts – Customized Services

Preventive maintenance packages:

1- Gold Package:

-Customized according to the customer needs and includes agreed preventive maintenance, training and spare parts prices over one year.

-Annual report with spare parts life cycle status.

2- Platinum Package:

-Customized according to the customer needs and includes agreed preventive maintenance, corrective maintenance, training and agreed spare parts prices over one year

-Annual report with spare parts life cycle status.

-Annual report with recommendation and cost effective modernization plan.

Customer benefits

- Agreed response time.
- Shorten call handling cycle and approvals.
- Include Training fees.
- Include Preventive maintenance visits as per the agreed period with the customer.
- Recommendation from the manufacture for the spare parts with life cycle status.

Platinum package additional includes:

- Corrective maintenance visits
- Recommendation from the manufacture for the modernization plan

Commissioning and startup Supervision packages:

1- Bronze Package:

(3) days supervision support for commissioning and start up for Projects.

2- Silver Package:

(5) days supervision support for commissioning and start up for Projects.

3- Platinum Package:

(10) days supervision support for commissioning and start up for Projects.

Get more information

Training for Industry Automation and Drive Technologies
www.siemens.com.eg/automation/training

Services for Industry Automation and Drive Technologies
www.siemens.com.eg/automation/service&support

Products and selection tools for Industry Automation and Drive Technologies
<http://mall.automation.siemens.com>

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