



Training booklet

The worldwide leader in secure power protection for industrial applications

Gutor
technology

Schneider
Electric™



Training courses

Gutor™ Uninterruptible Power Supply (UPS) systems from Schneider Electric are designed to individual customer requirements. Our customized courses train technical staff to maintain and service these UPS systems according to specific, on-site system requirements.

Our training facilities are located in Switzerland, Malaysia, and the United Arab Emirates (UAE), and are equipped with up-to-date audiovisual aids and test equipment. We introduce you to important operating and service-related topics, and provide you with valuable expertise on UPS systems. These courses also enable you to simulate different modes of operation and functions on these test equipments.

If you install a training system on your site, you can choose to have us come to you instead. Live systems cannot be used for training purposes.

Schneider Electric recommends training courses for all UPS system customers with on-site systems.

www.schneider-electric.com

What our customers have to say about our training courses:

The course was very well presented and of excellent quality - well done.

Ontario Power Generation Inc. (Canada)

WELL BALANCED COURSE OF PRACTICAL DEMONSTRATION & BOOK-WORK.

Shell E & P Ireland Ltd. (Ireland)

The training was a mind opener in regards to UPS systems.

West Africa Gas Pipeline Company Ltd. (Nigeria)

Overall it was an excellent programme.

Emirates Aluminium (UAE)

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reasons why training adds more value to your business:

- 1 Optimize your UPS system's operation for safety.
- 2 Ensure confident action and decision making in case of emergencies.
- 3 Receive level 1 – 2 training for timely intervention and effective risk management.

Gutor UPS system overview



Gutor UPS systems offer you the highest quality and availability. Over the years, we have used our proven expertise to hone our systems for optimal reliability.

With Gutor UPS systems, you're not just buying a product – you're buying a solution that ensures safety and peace of mind for your business.

The Schneider Electric™ Gutor family is designed for heavy industrial applications, including UPS systems, inverters, rectifiers, chargers, and SMPS modular systems. Our engineered-to-order (ETO) approach ensures every system is customized to fit your specific needs and requirements.

Gutor PxW AC UPS system



- > Gutor PEW 5 – 200 kVA single phase
- > Gutor PDW 10 – 220 kVA three phase
- > Higher ratings upon request

Gutor SDC rectifier/battery charger



- > Gutor SDC 24 – 220 V
- > Gutor SDC 25 – 1200 A
- > Higher ratings upon request

Gutor WxW AC inverter system



- > Gutor WEW 5 – 200 kVA single phase
- > Gutor WDW 10 – 220 kVA three phase
- > Higher ratings upon request

Gutor PXP AC UPS system



- > Gutor PXP 1000 5 – 160 kVA single phase
- > Gutor PXP 3000 5 – 160 kVA three phase

Our professional training centers



Schneider Electric, world leader in UPS systems, your partner in training.

Our goal: Teach you new skills, share our experience, and provide you with all tools necessary to get the most out of your Gutor system.



● Training center

Our training courses

Who benefits from our courses?

- Gutor UPS introduction: for new employees with no prior knowledge of UPS systems
- Gutor maintenance: employees who require theoretical information
- Level courses: end-users who work with the system on regular basis

What is the purpose of the courses?

You will become proficient in your Gutor UPS system's maintenance and enjoy true autonomy.



After completion of the course, each participant receives a certificate.

Where can you take our courses?

- Courses held in Wettingen (Switzerland), Abu Dhabi (UAE), or Selangor (Malaysia)
- On your site, if you have installed a training system

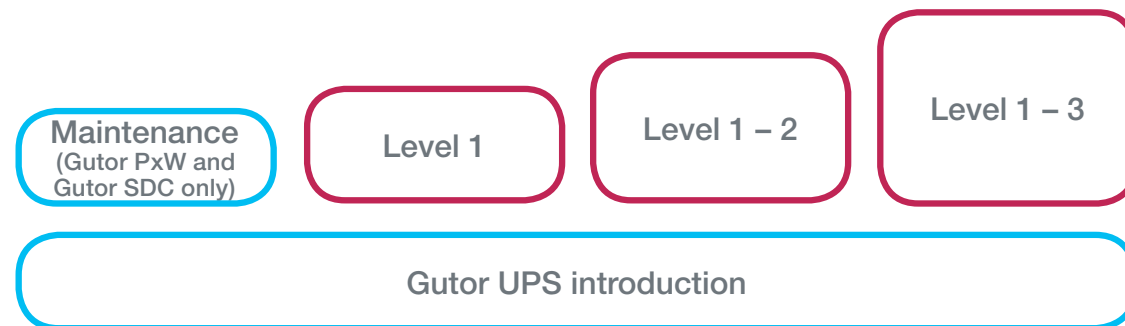
Which language do we use?

We teach in English, but other languages are available upon request.

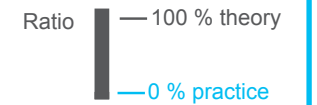
What are the benefits?

- You will be able to operate your system in a safe and confident manner .
- Proper maintenance and failure-reduced systems extend your Gutor UPS system's overall lifespan.
- If you have a trained employee on-site, our support team can handle malfunction issues more efficiently.

Courses overview



Gutor UPS introduction: Standard training



Introduction to the world of Gutor UPS systems

Participants will acquire basic knowledge of Gutor UPS system network topologies. In addition, the instructor will explain different configurations of UPS systems, including batteries. This training is intended for new employees with no prior knowledge of UPS systems.

> Content

- Tasks and functions of a UPS system
- Topologies
 - UPS (Gutor PxW, Gutor PXP)
 - Charger (Gutor SDC)
 - Inverter (Gutor WxW)
- Configuration
 - Redundant
 - Hot standby, etc.
- Environmental impact
- Operation
 - Functional description
 - Starting a UPS system
 - Gutor front panel
- Remote Monitoring
 - Relay board
 - Modbus-converter
 - Network management card
- Batteries
 - Types
 - Configuration
 - Battery test

Target audience

- New employees with no prior knowledge of UPS systems

Required skills

- No prior knowledge required

Duration

- 2.5 Days

Location and dates

- Training center UAE
MAY | AUG
 - Check actual dates by contacting gutor-training-ae@schneider-electric.com
- Training center MY
MAY | OCT
 - Check actual dates by contacting gutor-training-my@schneider-electric.com

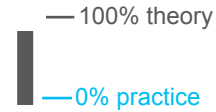
Price

- CHF 1'950 per participant
- We require a minimum of four attendees to provide the training.

Receive a certificate of attendance and training documentation.

Gutor system maintenance: Standard training

How to maintain a system.



During this standard theoretical course, you will learn about different operation modes, find out how to operate the system, and learn how to perform regular maintenance work. This training is intended for employees who require theoretical information about UPS operation and maintenance.

> Content

- Explanation of system principles and various operation modes
- Explanation of the control panel
- Necessary maintenance work and intervals

Target audience

- Employees who require theoretical information

Required skills

- Participants need a solid education in electronics

Duration

- Gutor SDC: Two days
- Gutor PxW: Two days

Location and dates

- Training center UAE
Gutor PxW: MAY | AUG
Gutor SDC: MAY | AUG - SEPT
- Check actual dates by contacting gutor-training-ae@schneider-electric.com
- Training center MY
Gutor PxW JUNE | OCT
Gutor SDC JUNE | OCT
- Check actual dates by contacting gutor-training-my@schneider-electric.com

Price

- CHF 2'028 per participant (two days)
- We require a minimum of four attendees to provide the training.

Receive a certificate of attendance and training documentation.

Level 1: Customized training

Operation | System principles | Practical exercises



This course consists of two parts: The theoretical part introduces participants to various system operation modes and provides information on how the system is built; the practical part teaches you how to operate the system in a safe and confident manner.

> Content

- Information concerning specific characteristics of Gutor systems
- Explanation of system principles and various operating modes
- Detailed explanation of the control panel and its signals
- Introduction to safe operation of the system (switching on, changing modes, switching off)
- Practical session

Target audience

- End-user operation staff

Required skills

- Participants need a solid education in electronics

Duration

- Gutor SDC, Gutor WxW, and Gutor PXP: two days
- Gutor PxW: three days
- Two different systems: three days
- Three different systems: upon request

Location

- Training center Switzerland, Malaysia, UAE, or at your site if a training system is installed

Dates

- According to your needs and instructor availability

Price

- On request, depending on how many types of UPS systems you own (Gutor SDC, Gutor WxW, Gutor PxW, and Gutor PXP)

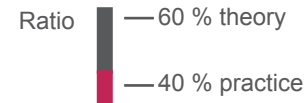
Number of participants

- Two to eight attendees per session

Receive a Gutor certification (valid for three years) and training documentation.

Level 1 – 2: Customized training

Maintenance | Hardware | Settings | Batteries | Troubleshooting



This course builds on information provided during Level 1 training. Participants learn the important functions of major UPS components, including overall monitoring and system control. In addition, participants receive knowledge that will enable them to carry out maintenance work, including information regarding replacement of components and parts. Upon completion of this course, participants will be able to repair simple system errors.

> Content

- Content learned during Level 1
- Detailed information concerning system principles
- Description of components and their function (rectifier, controller, interface, etc.)
- Explanation of circuit diagrams and technical data
- Necessary maintenance work and maintenance intervals
- Troubleshooting minor system errors
- Battery information
- Practical session

Target audience

- End-user operation and maintenance staff

Required skills

- Participants need a solid education in electronics

Location

- Training center Switzerland, Malaysia, UAE, or at your site if a training system is installed

Duration

- Gutor SDC, Gutor WxW: four days
- Gutor PXP: three days
- Gutor PxW: five days
- Two different systems: six days
- Three different systems on request

Dates

- According to your needs and instructor availability.

Price

- On request, depending on how many types of UPS systems you own (Gutor SDC, Gutor WxW, Gutor PxW, and Gutor PXP)

Number of participants

- Two to eight attendees per session

Receive a Gutor certification (valid for three years) and training documentation.

Level 1 – 3: Customized training

Configuration | Calibration | Extensive troubleshooting



In Level 3, you will learn how to analyze and repair system errors. In addition, the instructor explains different system configurations and calibrations. Upon completion of this course, participants will be able to perform most repair and maintenance work independently.

> Content

- Content learned during Level 1 – 2
- System software configuration and settings
- Additional information concerning the controller (RAM1, VQs, GALs)
- Calibration of the system
- Troubleshooting minor and major system errors
- Practical session

Target audience

- End-user and maintenance staff who would be able to solve most repair work by themselves

Required skills

- Participants need a solid background in electronics.

Location

- Training center Switzerland, Training center Malaysia

Duration

- Gutor SDC: five days
- Gutor WxW: six days
- Gutor PXP: five days
- Gutor PxW: seven days
- Two different systems: ten days
- Three different systems on request

Dates

- According to your needs and instructor availability

Price

- On request, depending on how many types of UPS systems you own (Gutor SDC, Gutor WxW, Gutor PxW, and Gutor PXP)

Number of participants

- Two to five attendees per session

Receive a Gutor certification (valid for three years) and training documentation.

Helpful information for your visit

> Welcome

Upon your arrival, our coordinators will help you settle in and show you around.

Lunch

You are invited to have lunch with your course instructor at a nearby restaurant.

General agenda

At the opening of the course you will receive technical documentation, and at the end of the course a satisfaction inquiry and a certificate.

★ On-site course options

We can tailor special courses to your specific needs, held in your own facility.

Phone calls

In case of emergency others can reach you at:

Switzerland	+41 (0)56 437 34 34
Malaysia	+60 (0)3 5569 0331
UAE	+971 2 619 31 66

Any messages we receive will be forwarded during the breaks.



Practical information

Training Center Switzerland

How to find us

By car from Zurich Airport

1. Follow the green "Autobahn" (highway/freeway) signs towards BERN/BASEL.
2. Drive in this direction for approx. 25 km, always following the signs for BERN/BASEL.
3. Take the exit no. 56 for Wettingen-Ost / Würenlos (past the Shell service station)
4. At the intersection with traffic lights, turn left towards WETTINGEN and BADEN. At the following intersection with traffic lights, turn left again and continue down the road.
5. At the roundabout drive straight through, take the second exit (straight ahead).
6. Turn left into the next street (Hardstrasse).
7. Schneider Electric is situated on the right side of the street.

By public transport

1. Take the direct train connection to BADEN.
2. From BADEN take the RVBW-Bus connection no. 7 to WETTINGEN Tägerhard.
3. Exit at the bus stop Tägerhard.
4. Walk 150 m along Tägerhardstrasse towards Hardstrasse.
5. Turn right into Hardstrasse.
6. Schneider Electric is situated on the left (after 250 m).

Schneider Electric
Hardstrasse 74
CH-5430 Wettingen | Switzerland
P +971 2 619 3166
F ++971 2 619 3150
gutor-training-ch@schneider-electric.com
GPS location: N 47°27'25.65", E 8°20'14"



Practical information

Training Center Malaysia

How to find us

By car from KL City

Estimated 26 km, 34 min

1. Head southwest on Jalan Bukit Bintang toward Jalan Pudu: 88 m
2. Continue onto Jalan Pudu: 800 m
3. Keep right at the fork: 200 m
4. Continue onto Jalan Tun Tan Cheng Lock: 220 m
5. Turn left onto Jalan Tun H S Lee: 500 m
6. Slight right to stay on Jalan Tun H S Lee: 190 m
7. Turn left onto Jalan Syed Putra: 3.3 km
8. Slight right to stay on Jalan Syed Putra: 350 m
9. Take the ramp on the right onto Lebuhraya Pantai Baru: 3.0 km
10. Take the ramp onto Lebuhraya Pantai Baru: 11.0 km
11. Continue onto Jalan Subang Utama: 900 m
12. Continue onto Persiaran Tujuan: 700 m
13. Merge onto Jalan Pengaturcara: 850 m
14. Turn left onto Persiaran Kerjaya: 2.3 km
15. Turn right onto Jalan Kontraktor U1/14: 1.1 km
16. Turn right onto Jalan Jurukur U1/19: Destination will be on the right 550 m

Schneider Electric

No. 19, Jln Juruukur U1/19, Seksyen U1
Hicom Glenmarie Industrial Park
40150 Shah Alam, Selangor, Malaysia
P +60 (0)3 5569 0331
F +60 (0)3 5569 0332
gutor-training-my@schneider-electric.com
GPS location: N 3°05'33.11", E 101°33'52.85"

By car from KLIA Airport

Estimated 46 km, 40 min

1. Head southwest toward Jalan Pekeliling: 1.9 km
2. Continue straight onto Lebuhraya Klia Extension: 11.1 km
3. Keep left at the fork and merge onto Lebuhraya Utara – Selatan Hubungan Tengah: 27.4 km
4. Slight left toward Persiaran Jubli Perak: 600 m
5. Turn right onto Persiaran Jubli Perak: 1.8 km
6. Continue onto Jalan Subang: 800 m
7. Slight right onto Persiaran Kerjaya: 600 m
8. Turn left onto Jalan Kontraktor U1/14: 1.1 km
9. Turn right onto Jalan Jurukur U1/19: Destination will be on the right 550 m



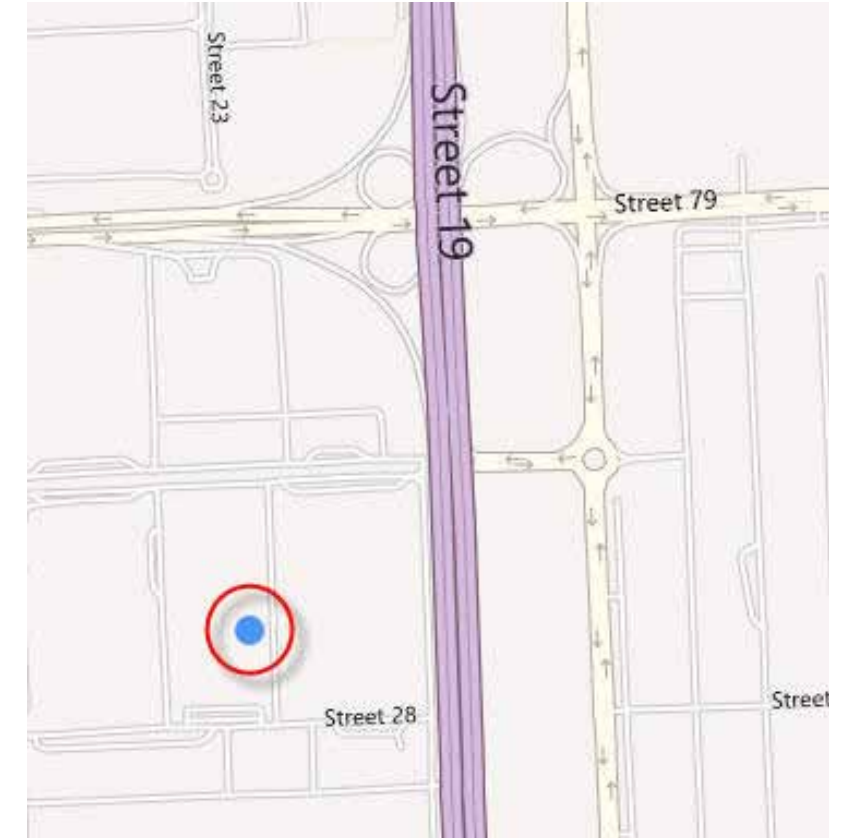
Practical information

Training Center UAE

How to find us

By car from Abu Dhabi International Airport, Sheik Maktoum Bin Rashid Road - Abu Dhabi, United Arab Emirates

1. Head northwest: 1.7 km
2. Turn left toward Abu Dhabi-Dubai Rd/E 10: 3.4 km
3. Turn left toward Abu Dhabi-Dubai Rd/E 10: 230 m
4. Turn right onto Abu Dhabi-Dubai Rd/E 10: 2.2 km
5. Take the exit: 2.7 km
6. Turn right: 500 m
7. Take the ramp onto Shahama – Dubai Road: 1.3 km
8. Take exit Shahama - Dubai toward Abu Dhabi-Dubai Road /E 10: 400 m
9. Take exit Abu Dhabi to merge onto Abu Dhabi-Dubai Road /E 10: 14.6 km
10. Take the exit onto Abu Dhabi – Al Ain Road /E 22 : 4.6 km
11. Take the exit onto E 7: 5.2 km
12. Turn right: 45 m
13. Take the 1st right: 130 m
14. Take the 1st left: 300 m
15. Take the 1st right: 170 m



Schneider Electric

Beside SEHA/Emirates ID and Daman Office,
Unit 13 Ground Floor | Mussafah M4, Plot 12
PO Box 29580 | Mussafah, Abu Dhabi
United Arab Emirates
P +971 2 619 3166
F +971 2 619 3150
gutor-training-ae@schneider-electric.com
GPS location: N 24° 21' 58.18", E 54° 31' 16.31"

Offer and registration

Please send your purchase order form or your offer request by mail:

gutor-training-ch@schneider-electric.com or by Fax +41 (0)56 437 34 21

gutor-training-my@schneider-electric.com or by Fax +60 (0)3 5569 0332

gutor-training-ae@schneider-electric.com or by Fax +971 2 619 31 50



Ordering our standard trainings: Gutor UPS introduction / Gutor system maintenance

Your purchase order must contain the following information:

Company details:

- > Company name
- > Name of the person in charge
- > Address
- > Telephone
- > Email

Trainee details:

- > Name of the training
- > Date of the training
- > Name of the trainees
- > Price (exclusive of VAT)
- > Total Price (exclusive of taxes)

Admin details:

- > Bill to address
- > Purchasing department contact

Offer for our customized trainings: Level 1, Level 1 – 2, Level 1 – 3

Each training course and its documentation is individually tailored based on your installed fleet. Please let us know the specific Gutor order # (find it on the Gutor label fixed inside the front door of each system or on the manuals).

Required information for customized offers:

Company details:

- > Company name
- > Name of the person in charge
- > Address
- > Telephone
- > Email

Training details:

- > Gutor order #
- > System type (Gutor SDC, Gutor WxW, Gutor PxW, and Gutor PXP)
- > Number of participants
- > Location
- > Requested date

Admin details:

- > Bill to address
- > Purchasing department contact