



Customer Training Catalog Training Programs Network Energy Product Technology Training



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1 Training Programs

Network Energy Product Technology Training Training Programs are designed as follows:

Training Programs	Level	Duration (working days)	Training Location	Class Size
Telecom Energy				
Minishelter(ITS1000M) System Operation and Maintenance Training	II	2		6 ~ 12
Power 3000 (DC Power) System Operation and Maintenance Training	II	4		6 ~ 12
Power 3000 (DC Power) System Design Training	III	2		6 ~ 12
PowerCube 1000 System Operation and Maintenance Training	II	4		6 ~ 12
PowerCube1000 System Design Training	III	2		6 ~ 12
Data Center Energy				
UPS2000 Operation and Maintenance Training	II	2		6 ~ 12
UPS5000 Operation and Maintenance Training	II	3		6 ~ 12
UPS8000 Operation and Maintenance Training	II	4		6 ~ 12
IDS1000 System Operation and Maintenance Training	II	5		6 ~ 12
IDS2000 System Operation and Maintenance Training	II	5		6 ~ 12
NetEco System Operation and Maintenance Training	II	1		6 ~ 12
NetCol5000 System Operation and Maintenance Training	II	2		6 ~ 12
NetCol8000 System Operation and Maintenance Training	II	2		6 ~ 12

1.1 Telecom Energy Training Programs

1.1.1 Minishelter(ITS1000M) System Operation and Maintenance Training

Training Path

Minishelter(ITS1000M) System Operation and Maintenance Training		
OPA02	Lecture + Practical	2d

Target Audience

The program is intended for field maintenance engineers, second line or technical support engineers of Minishelter (ITS1000M) System Operation and Maintenance

Prerequisites

- Having working experience in engineering project or maintenance of Minishelter (ITS1000M) or be familiar with Minishelter(ITS1000M) group

Objectives

On completion of this program, the participants will be able to:

- Outline green site solution of Minishelter(ITS1000M) system.
- Interpret the working principle of Minishelter(ITS1000M) system.
- Interpret the basic structure of

Minishelter(ITS1000M) system.

- Outline the typical configurations of Minishelter(ITS1000M)
- Interpret the functions and specifications of different parts.
- Perform hardware configuration and cables connection.
- Perform the installation of Minishelter(ITS1000M) system.
- Perform the operation of Minishelter(ITS1000M) system.
- Perform the maintenance of Minishelter(ITS1000M) system.
- Explain the common fault types.
- Apply fault disposal method
- Explain how to prevent the fault
- Locate and eliminate faults, get experience from troubleshooting practice

Duration

2 working days

Class Size

Min 6, Max 12

1.1.2 Power 3000 (DC Power) System Operation and Maintenance Training

Training Path

Power 3000 (DC Power) System Operation and Maintenance Training
OPB12 Lecture + Practical 4d

Target Audience

The program is intended for second line or technical support engineers of Power 3000 (DC Power) Operation and Maintenance

Prerequisites

- Having working experience in the maintenance of Power System more than one year and Be familiar with Battery group

Objectives

On completion of this program, the participants will be able to:

- Describe the working principle of power system

- Describe structure, functions of power system
- Outline the features of power system.
- Outline composing of power system
- Interpret the functions and specifications of different composing.
- Outline the load capacity and ability of power system.
- Perform DC power system operation and maintenance, etc.
- Perform the on-site operation, such as AC detective-Board replacement, etc.
- Locate and eliminate faults, get experience from troubleshooting practice

Duration

4 working days

Class Size

Min 6, Max 12

1.1.3 Power 3000 (DC Power) System Design Training

Training Path

Power 3000 (DC Power) System Design Training		
OPB18	Lecture	2d

Target Audience

The program is intended for layout and design engineer of Power 3000 (DC Power) solution, or senior engineer of operation and maintenance

Prerequisites

- Having working experience in technical support of Power 3000 (DC Power) more than three years and Having more than three years working experience in battery and power distribution

Objectives

On completion of this program, the participants will be able to:

- Explain the design principle of Power 3000 (DC Power) solution.
- Outline the design step of Power 3000 (DC Power) solution.
- Perform power consumption calculation
- Perform battery configuration design of Power 3000 (DC Power) solution.
- Perform the design process, design methods of Power 3000 (DC Power) solution

Duration

2 working days

Class Size

Min 6, Max 12

1.1.4 PowerCube 1000 System Operation and Maintenance Training

Training Path

PowerCube 1000 System Operation and Maintenance Training		
OPC52	Lecture + Practical	4d

Target Audience

The program is intended for second line or technical support engineers of PowerCube 1000 Operation and Maintenance

Prerequisites

- Having working experience in the operation and maintenance of D.G more than one year
- and Be familiar with Battery group

Objectives

On completion of this program, the participants will be able to:

- Outline different type scenario of PowerCube 1000 Solution.
- Outline the load capacity and ability of PowerCube 1000 Solution.
- Interpret the working principle of PowerCube 1000 Solution.
- Interpret the basic structure of PowerCube 1000 Solution.

- Outline the typical configurations of PowerCube 1000 Solution.
- Interpret the functions and specifications of different parts.
- Perform hardware configuration and cables connection.
- Perform the installation of PowerCube 1000 Solution.
- Perform the operation of PowerCube 1000 Solution.
- Perform the maintenance of PowerCube 1000 Solution.
- Explain the common fault types.
- Apply fault disposal method
- Explain how to prevent the fault
- Perform the Field operation, such as Battery replacement.
- Locate and eliminate faults, get experience from troubleshooting practice

Duration

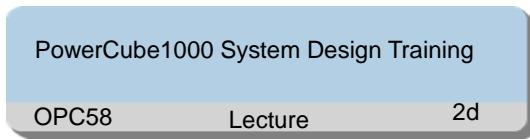
4 working days

Class Size

Min 6, Max 12

1.1.5 PowerCube1000 System Design Training

Training Path



Target Audience

The program is intended for layout and design engineer of PowerCube1000 solution

Prerequisites

- Having more than three years working experience in technical support of hybrid power solution
- Having more than three years working experience in battery and power system design

Objectives

On completion of this program, the participants will

be able to:

- Explain the design principle of PowerCube1000 solution.
- Outline the design step of PowerCube1000 solution.solution.
- Perform solar module and battery configuration design of PowerCube1000 solution.
- Perform D.G. configuration design
- Perform power system configuration design
- Perform the design process, design methods of PowerCube1000 solution.

Duration

2 working days

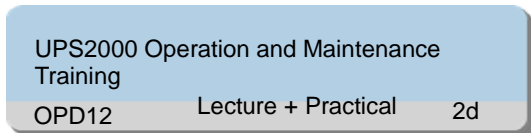
Class Size

Min 6, Max 12

1.2 Data Center Energy Training Programs

1.2.1 UPS2000 Operation and Maintenance Training

Training Path



Target Audience

The program is intended for second line or technical support engineers of UPS Operation and Maintenance

Prerequisites

- Having working experience in the maintenance of UPS more than one year and Be familiar with Battery group

Objectives

On completion of this program, the participants will

be able to:

- Describe the working principle and main components of UPS
- Express the function and features of main components of UPS2000
- Describe the load capacity of UPS2000
- Perform installation and maintenance of UPS2000
- Locate and eliminate faults, get experience from troubleshooting practice

Duration

2 working days

Class Size

Min 6, Max 12

1.2.2 UPS5000 Operation and Maintenance Training

Training Path

UPS5000 Operation and Maintenance Training		
OPD22	Lecture + Practical	3d

Target Audience

The program is intended for second line or technical support engineers of UPS Operation and Maintenance

Prerequisites

- Having working experience in the maintenance of UPS more than two years and Be familiar with Battery group

Objectives

On completion of this program, the participants will be able to:

- Describe the working principle and main components of UPS
- Express the function and features of main components of UPS5000
- Express the typical configuration of UPS5000
- Express the classification and model of UPS5000
- Describe the load capacity of UPS5000
- Perform installation and maintenance of UPS5000
- Locate and eliminate faults, get experience from troubleshooting practice

Duration

3 working days

Class Size

Min 6, Max 12

1.2.3 UPS8000 Operation and Maintenance Training

Training Path

UPS8000 Operation and Maintenance Training		
OPD32	Lecture + Practical	4d

Target Audience

The program is intended for second line or technical support engineers of UPS Operation and Maintenance

Prerequisites

- Having working experience in the maintenance of UPS more than three years and Be familiar with Battery group

Objectives

On completion of this program, the participants will be able to:

- Describe the working principle and main

components of UPS

- Express the function and features of main components of UPS8000
- Express the method of combine UPS8000
- Express the typical configuration of UPS8000
- Express the classification and model of UPS8000
- Describe the load capacity of UPS8000
- Perform installation and maintenance of UPS8000
- Locate and eliminate faults, get experience from troubleshooting practice

Duration

4 working days

Class Size

Min 6, Max 12

1.2.4 IDS1000 System Operation and Maintenance Training

Training Path

IDS1000 System Operation and Maintenance Training		
OPE12	Lecture + Practical	5d

Target Audience

The program is intended for second line or technical support engineers of IDS1000 System Operation and Maintenance

Prerequisites

- Having working experience in the maintenance of IDS1000 and Power System

Objectives

On completion of this program, the participants will

be able to:

- Describe the basic structure of IDS1000 system.
- Describe the operation of IDS1000 system.
- Describe the working principle, structure, functions and features of IDS1000 system.
- Explain the functions and specifications of different parts.
- Locate and eliminate faults, get experience from troubleshooting

Duration

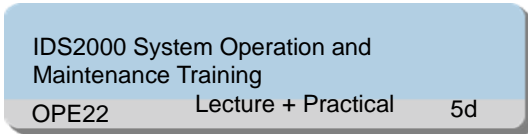
5 working days

Class Size

Min 6, Max 12

1.2.5 IDS2000 System Operation and Maintenance Training

Training Path



Target Audience

The program is intended for second line or technical support engineers of IDS2000 System Operation and Maintenance

Prerequisites

- Having working experience in the maintenance of Data Center

Objectives

On completion of this program, the participants will be able to:

- Outline the subsystem of IDS2000
- Outline the main components of IDS2000
- Outline the function and features of cooling system and power system
- Perform operation and maintenance of UPS and DC power system
- Perform operation and maintenance of air conditioner and PDF
- Locate and eliminate faults, get experience from troubleshooting

Duration

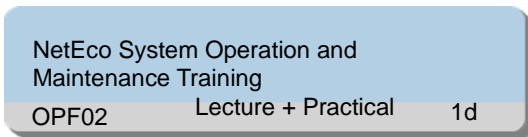
5 working days

Class Size

Min 6, Max 12

1.2.6 NetEco System Operation and Maintenance Training

Training Path



Target Audience

The program is intended for staffs that are responsible for network element monitoring and operation through iManager NetEco. Typical target group would be NMS operator

Prerequisites

- Having basic Describing of data communication
- Having general Explainledge of telecom networks
- Accomplish the corresponding product training, which is managed by iManager NetEco

Objectives

On completion of this program, the participants will be able to:

- Express the working principle of monitoring

equipments, such as DG control unit, Water Level Sensor, door sensor...

- Describe the classification, specification and features of monitoring equipments
- Become familiar with the basic concepts, structures and operations about system.
- Describe system structure, orientation features, network application and functions of the iManager NetEco.
- Describe the features of topology management, security management, configuration management, alarm management and performance management of iManager NetEco.
- Perform network performance monitoring, network alarms monitoring, environment and power supply monitoring and network element data backup and upgrading

Duration

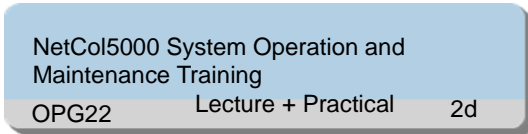
1 working day

Class Size

Min 6, Max 12

1.2.7 NetCol5000 System Operation and Maintenance Training

Training Path



Target Audience

The program is intended for second line or technical support engineers of NetCol5000 System Operation and Maintenance.

Prerequisites

- Describe elementary electrical circuit and refrigeration theory
- Graduator of junior college or higher
- More than one year of previous experience of similar position

Objectives

On completion of this program, the participants will be able to:

- Describe refrigeration theory

- Describe principle of compressor, condenser, evaporator, humidifiers, re-heater, and kinds of sensors
- Design solution of air-conditioner
- Apply solution of air-conditioner
- Install Huawei air-conditioner
- Operate air-conditioner
- Fill in new air-conditioner starting and testing records
- Use the special tools and meters
- Do daily maintenance
- Troubleshoot air-conditioner
- Fill in maintenance and testing records

Duration

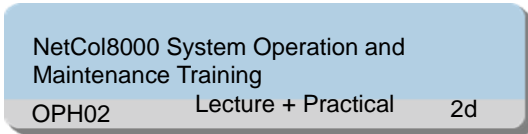
2 working days

Class Size

Min 6, Max 12

1.2.8 NetCol8000 System Operation and Maintenance Training

Training Path



Target Audience

The program is intended for second line or technical support engineers of NetCol8000 System Operation and Maintenance.

Prerequisites

- Having basic knowledge about ventilation and A/C system.

Objectives

On completion of this program, the participants will be able to:

- Describe the air conditioner working principle, especially for the refrigeration theory
- Describe the working principle of compressor, condenser, evaporator, humidifiers, re-heater, and kinds of sensors
- Describe the NetCol8000 solution of air-conditioner
- Apply NetCol8000 solution of air-conditioner

- Explain the application scenario of NetCol8000 system
- Operate the naming rule of NetCol8000 system
- Describe the basic structure and typical layout of NetCol8000 system.
- Operate the components specification and features
- Operate the function of compressor, condenser, evaporator and so on
- Perform the partially filling in refrigerant
- Perform commissioning
- Perform checking after commissioning
- Perform the air filter, indoor fan, compressor, condenser, evaporator, Infrared Humidifier, electric heater, air suction and exhaust pressure, sight glass, electrical control system, routine maintenance
- Perform common fault troubleshooting
- Perform fault diagnosis and troubleshooting

Duration

2 working days

Class Size

Min 6, Max 12