

Customer Training Catalog Course Descriptions

Network Energy Product Technology Training



HUAWEI
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1.1 Training Course Descriptions

Network Energy Product Technology Training Courses are designed as follows:

Code	Training Courses	Level	Duration (working days)	Training Location	Class Size
Telecom Energy Training Courses					
OPA02	Minishelter(ITS1000M) System Operation and Maintenance Training	II	2		6 ~ 12
OPB12	Power 3000 (DC Power) System Operation and Maintenance Training	II	4		6 ~ 12
OPB18	Power 3000 (DC Power) System Design Training	III	2		6 ~ 12
OPC52	PowerCube 1000 System Operation and Maintenance Training	II	4		6 ~ 12
OPC58	PowerCube1000 System Design Training	III	2		6 ~ 12
Data Center Energy Training Courses					
OPD12	UPS2000 Operation and Maintenance Training	II	2		6 ~ 12
OPD22	UPS5000 Operation and Maintenance Training	II	3		6 ~ 12
OPD32	UPS8000 Operation and Maintenance Training	II	4		6 ~ 12
OPE12	IDS1000 System Operation and Maintenance Training	II	5		6 ~ 12
OPE22	IDS2000 System Operation and Maintenance Training	II	5		6 ~ 12
OPF02	NetEco System Operation and Maintenance Training	II	1		6 ~ 12
OPG22	NetCol5000 System Operation and Maintenance Training	II	5		6 ~ 12
OPH02	NetCol8000 System Operation and Maintenance Training	II	5		6 ~ 12

1.2 Telecom Energy Training Course Descriptions

1.2.1 OPA02 Minishelter(ITS1000M) System Operation and Maintenance Training



Objectives

On completion of this course, 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

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

Content

- Minishelter(ITS1000M) System Operation and Maintenance Training

Training Methods

Lecture and Practice

Duration

2 working days

Class Size

Min 6, max 12

1.2.2 OPB12 Power 3000 (DC Power) System Operation and Maintenance Training



Objectives

On completion of this course, 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

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

Content

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

Training Methods

Lecture and Practice

Duration

4 working days

Class Size

Min 6, max 12

1.2.3 OPB18 Power 3000 (DC Power) System Design Training



Objectives

- On completion of this course, 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

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

Content

- Power 3000 (DC Power) System Design Training

Training Methods

Lecture

Duration

2 working days

Class Size

Min 6, max 12

1.2.4 OPC52 PowerCube 1000 System Operation and Maintenance Training



Objectives

On completion of this course, 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

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

Content

- PowerCube 1000 System Operation and Maintenance Training

Training Methods

Lecture and Practice

Duration

4 working days

Class Size

Min 6, max 12

1.2.5 OPC58 PowerCube1000 System Design Training



Objectives

On completion of this course, 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.

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

Content

- PowerCube1000 System Design Training

Training Methods

Lecture

Duration

2 working days

Class Size

Min 6, max 12

1.3 Data Center Energy Training Course Descriptions

1.3.1 OPD12 UPS2000 Operation and Maintenance Training



Objectives

On completion of this course, 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

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

Content

- UPS2000 Operation and Maintenance Training

Training Methods

Lecture and Practice

Duration

2 working days

Class Size

Min 6, max 12

1.3.2 OPD22 UPS5000 Operation and Maintenance Training



Objectives

On completion of this course, 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

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

Content

- UPS5000 Operation and Maintenance Training

Training Methods

Lecture and Practice

Duration

3 working days

Class Size

Min 6, max 12

1.3.3 OPD32 UPS8000 Operation and Maintenance Training



Objectives

On completion of this course, 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

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

Content

- UPS8000 Operation and Maintenance Training

Training Methods

Lecture and Practice

Duration

4 working days

Class Size

Min 6, max 12

1.3.4 OPE12 IDS1000 System Operation and Maintenance Training



Objectives

On completion of this course, 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

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

Content

- IDS1000 System Operation and Maintenance Training

Training Methods

Lecture and Practice

Duration

5 working days

Class Size

Min 6, max 12

1.3.5 OPE22 IDS2000 System Operation and Maintenance Training



Objectives

On completion of this course, 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

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

Content

- IDS2000 System Operation and Maintenance Training

Training Methods

Lecture and Practice

Duration

5 working days

Class Size

Min 6, max 12

1.3.6 OPF02 NetEco System Operation and Maintenance Training



Objectives

On completion of this course, 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

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

Content

- NetEco System Operation and Maintenance Training

Training Methods

Lecture and Practice

Duration

1 working day

Class Size

Min 6, max 12

1.3.7 OPG22 NetCol5000 System Operation and Maintenance Training



Objectives

On completion of this course, 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

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

Content

- NetCol5000 System Operation and Maintenance Training

Training Methods

Lecture and Practice

Duration

5 working days

Class Size

Min 6, max 12

1.3.8 OPH02 NetCol8000 System Operation and Maintenance Training



Objectives

On completion of this course, 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

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.

Content

- NetCol8000 System Operation and Maintenance Training

Training Methods

Lecture and Practice

Duration

5 working days

Class Size

Min 6, max 12

