

Customer Training Catalog Course Descriptions Network OSS Training



HUAWEI
HUAWEI Learning Service
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1.1 Training Course Descriptions

Network OSS Training Courses are designed as follows:

Code	Training Courses	Level	Duration (working days)	Training Location	Class Size
U2000 Training Courses					
ONU01	U2000 System Introduction	I	0.5		6 ~ 12
ONU02	U2000 Alarm and Performance Management	I	0.5		6 ~ 12
ONU03	Network Device Introduction	I	2		6 ~ 12
ONU04	U2000 Security and Data Management	II	1		6 ~ 12
ONU05	U2000 Management and Maintenance	III	0.5		6 ~ 12
ONU06	U2000 Veritas Standby System Operation & Maintenance (Solaris)	III	3		2 ~ 6
ONU07	Transmission Network Device Introduction	I	1		6 ~ 16
ONU10	OptiX iManager U2000 Basic Operation	I	1		6 ~ 12
ONU13	U2000 Veritas Standby System Operation & Maintenance (Linux)	III	3		2 ~ 6
ONU11	U2000 System Installation	II	1		6 ~ 16
ONU20	iManager uTraffic System Introduction	II	0.5		6~12
ONU21	iManager uTraffic Configuration and Performance Management	II	2		6~12
ONU22	iManager uTraffic Troubleshooting	II	0.5		6~12
ONU23	iManager OSS Solution Introduction	II	0.5		6~12
ONU24	iManager U2000 NBI Operation and maintenance	II	1		6~12

1.2 U2000 Training Course Descriptions

1.2.1 ONU01 U2000 System Introduction



Objectives

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

- Describe the architecture and main features of U2000
- Describe the directory structure of U2000
- Describe the main functions of U2000

Target Audience

U2000 operator and maintainer

Prerequisites

- Familiar with Windows operating system

Content

- Telecommunications management network concept
- Network management layer of U2000
- U2000 system architecture
- Interfaces of U2000
- Managed equipment of U2000
- Hardware and software requirement
- The user interface of U2000
- Processes of U2000
- NMS maintenance suite: MSuite
- License introduction
- Directory structure of U2000

Training Methods

Lecture, E-lab

Duration

0.5 working day

Class Size

Min 6, max 12

1.2.2 ONU02 U2000 Alarm and Performance Management



Objectives

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

- Describe the basic concepts in alarm and performance management of U2000
- Perform the browse and setting operation for alarm
- Perform the basic response operation for common alarm events
- Perform the browse and setting operation for performance events

Target Audience

Datacom/Access/Transmission network routine monitor and maintainer

Prerequisites

- Completion of ONU01 U2000 System Introduction course or having equivalent knowledge

Content

- Alarm severity and category
- Alarm status
- Alarm viewing and operations
- Alarm template
- Alarm setting operations
- Alarm dumping
- Performance events type
- Performance monitoring setting
- Performance viewing operations
- Performance data dumping

Training Methods

Lecture , E-lab

Duration

0.5 working day

Class Size

Min 6, max 12

1.2.3 ONU03 Network Device Introduction



Objectives

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

- Outline the function of Huawei network equipment
- List the board type
- Describe the characteristic of the common boards
- List the common alarms of the equipment

Target Audience

Network routine monitor and maintainer

Prerequisites

- NA

Content

- Huawei network product introduction
- Cabinet, sub-rack, boards introduction
- Equipment features and alarms of Huawei network product

Training Methods

Lecture

Duration

2 working days

Class Size

Min 6, max 12

1.2.4 ONU04 U2000 Security and Data Management



Objectives

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

- Explain the concept of security management
- Complete the operation of U2000 security management
- Explain the concept of data management
- Complete the operation of U2000 data management

Target Audience

U2000 operator and maintainer

Prerequisites

- Familiar with Windows operating system

Content

- Introduction
- OS and database users management
- Log management
- Network security management
- NMS user security management
- U2000 Database Management

Training Methods

Lecture, Hands-on exercise, E-lab

Duration

1 working day

Class Size

Min 6, max 12

1.2.5 ONU05 U2000 Management and Maintenance



Objectives

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

- List U2000 routine maintenance items
- Perform operations of routine maintenance
- Complete routine maintenance for U2000
- List the common analysis methods of fault localization
- Locate U2000 faults
- Get the experience for U2000 troubleshooting
- Analyze and handle the typical faults
- Perform Msuite tool common operations

Target Audience

U2000 administrator

Prerequisites

- Completion of ONU01 U2000 System Introduction course or having equivalent knowledge

Content

- Operation Precautions
- Check Running Conditions of U2000
- Check Communication between U2000 and NEs
- Browse Current Alarms View Information in “System Monitor”
- Check Solaris Error Logs
- Back Up and Restore U2000 Data
- View Server Time
- General Thoughts About U2000 Troubleshooting
- Typical Troubleshooting Cases on Windows OS
- Typical Troubleshooting Cases on Solaris OS
- Typical Troubleshooting Cases on Linux OS
- Veritas Troubleshooting Cases
- Start Msuite
- Msuite common operation and management
- Msuite operation for HA system

Training Methods

Lecture, Hands-on exercise, E-lab

Duration

0.5 working day

Class Size

Min 6, max 12

1.2.6 ONU06 U2000 Veritas Standby System Operation & Maintenance (Solaris)



Objectives

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

- Outline the main features of Solaris
- Perform some basic operation of SUN workstation
- Describe some basic commands of Solaris
- Outline the main features of Sybase
- Start, shutdown, backup and restore Sybase database
- Describe some basic SQL language
- Explain the basic concepts of the Veritas system
- Describe the working principles of volume management and volume replication of the Veritas system
- Explain the principle of cluster management of the Veritas system
- Perform Veritas hot backup system basic operations
- Execute Veritas hot backup system routine maintenance
- Perform Veritas hot backup system troubleshooting
- Outline Veritas Hot Backup System Installation Preparations
- Perform Veritas Hot Backup System Installation
- List Veritas Hot Backup System Installation Checking Items

Target Audience

U2000 Veritas system administrator

Prerequisites

- Having Solaris and sybase basic knowledge

Content

- Solaris Introduction
- SUN Workstation Introduction
- Solaris Commands and Configuration
- Sybase Introduction
- Basic Operations of Sybase
- Basic Knowledge of the Veritas System
- Overview of the Veritas System
- Volume Management of the Veritas System
- Volume Replication of the Veritas System
- Cluster Management of the Veritas System
- Setting up VCS interface
- Starting Veritas hot standby system
- Shutting down Veritas hot standby system

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- Performing Active/Standby switching
 - Deleting a cluster
 - Taking a resource group offline
 - Bringing a resource online
 - Flushing the current operation
 - Disabling a resource
 - Probing a resource
 - Clearing faults in a resource group
 - Freezing a resource group
 - Routine Maintenance
 - Troubleshooting
 - Installation Preparations
 - Setting an IP Address for a Controller
 - Installing the Solaris OS and Patches
 - Through the Quick Installation DVD
 - Installing the U2000 Software

Training Methods

Lecture, Hands-on exercise

Duration

3 working days

Class Size

Min 2, max 6

1.2.7 ONU07 Transmission Network Device Introduction



Objectives

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

- Explain the networking and application of Huawei Transmission network equipment;
- Describe the functions of Huawei network products;
- Describe the capacity and features of Huawei network products;
- Locate the alarm in the network.

Target Audience

Transmission network routine monitor and maintainer

Prerequisites

- Having the basic knowledge of Transmission equipment and principle.

Content

- OptiX NG SDH & OCS Product Introduction
- Cabinet, Sub-rack, Boards
- Equipment Features

Training Methods

Lecture

Duration

1 working day

Class Size

Min 6, max 16

1.2.8 ONU10 OptiX iManager U2000 Basic Operation



Objectives

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

- Describe the architecture and main features of U2000
- Describe the directory structure of U2000
- Describe the main functions of U2000

Target Audience

U2000 operator and maintainer

Prerequisites

- Familiar with Windows operating system

Content

- Telecommunications Management Network Concept
- Network Management Layer of U2000
- U2000 System Architecture
- Interfaces of U2000
- Managed Equipment of U2000
- Hardware and Software Requirement
- The User Interface of U2000
- Processes of U2000
- NMS Maintenance Suite: MSuite
- License Introduction
- Directory Structure of U2000

Training Methods

Lecture, Hands-on exercise , E-lab

Duration

1 working day

Class Size

Min 6, max 12

1.2.9 ONU13 U2000 Veritas Standby System Operation & Maintenance (Linux)



Objectives

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

- Outline the main features of Linux
- Perform some basic operation of Linux
- Describe some basic commands of Linux
- Outline the main features of Sybase
- Start, shutdown, backup and restore Sybase database
- Describe some basic SQL language
- Explain the basic concepts of the Veritas system
- Describe the working principles of volume management and volume replication of the Veritas system
- Explain the principle of cluster management of the Veritas system
- Perform Veritas hot backup system basic operations
- Execute Veritas hot backup system routine maintenance
- Perform Veritas hot backup system troubleshooting
- Outline Veritas Hot Backup System Installation Preparations
- List Veritas Hot Backup System Installation Checking Items

Target Audience

U2000 Veritas system administrator

Prerequisites

- Having Linux and sybase basic knowledge

Content

- Linux Introduction
- Linux Commands and Configuration
- Sybase Introduction
- Basic Operations of Sybase
- Basic Knowledge of the Veritas System
- Overview of the Veritas System
- Volume Management of the Veritas System
- Volume Replication of the Veritas System
- Cluster Management of the Veritas System
- Setting up VCS interface
- Starting Veritas hot standby system
- Shutting down Veritas hot standby system
- Performing Active/Standby switching
- Deleting a cluster

-
- Taking a resource group offline
 - Bringing a resource online
 - Flushing the current operation
 - Disabling a resource
 - Probing a resource
 - Clearing faults in a resource group
 - Freezing a resource group
 - Routine Maintenance
 - Troubleshooting
 - Installation preparations and planning

Training Methods

Lecture, Hands-on exercise

Duration

3 working days

Class Size

Min 2, max 6

1.2.10 ONU11 U2000 System Installation



Objectives

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

- Perform the installation of U2000 software in Windows platform
- Perform the installation of U2000 LCT software in Windows platform

Target Audience

U2000 and LCT user.

Prerequisites

- Having the knowledge of Windows OS

Content

- U2000 Installation Preparations
- U2000 Installation Procedure
- Checking the Correctness of Installation
- U2000 LCT Installation

Training Methods

Lecture, Hands-on exercise

Duration

1 working day

Class Size

Min 6, max 16

1.2.11 ONU20 iManager uTraffic System Introduction



Objectives

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

- Describe the basic concepts in performance management of iManager uTraffic
- Perform the browse and setting operation for performance events

Target Audience

uTraffic Maintenance Engineer and Administrator

Prerequisites

- Having the basic knowledge of NMS

Content

- uTraffic Overview
- uTraffic Main Services
- uTraffic System Architecture
- uTraffic Management Capability
- uTraffic Solutions

Training Methods

Lecture

Duration

0.5 working day

Class Size

Min 6, max 12

1.2.12 ONU21 iManager uTraffic Configuration and Performance Management



Objectives

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

- Describe the IP/Transmission/Access scenario in iManager uTraffic
- Understand the basic parameters in performance management of iManager uTraffic

Target Audience

uTraffic Maintenance Engineer and Administrator

Prerequisites

- Having the basic knowledge of NMS

Content

- Interconnecting the uTraffic with the U2000
- Report User Management
- Configuring uTraffic Performance Collection
- uTraffic Network Performance Report
- Configuring equipment and network performance monitoring in iManager uTraffic
- Configuring performance report in iManager uTraffic
- Viewing the performance monitoring result in iManager uTraffic

Training Methods

Lecture, Demonstration, Hands-on Exercise

Duration

2 working days

Class Size

Min 6, max 12

1.2.13 ONU22 iManager uTraffic Troubleshooting



Objectives

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

- Describe the iManager uTraffic troubleshooting

Target Audience

uTraffic Maintenance Engineer and Administrator

Prerequisites

- Having the basic knowledge of NMS

Content

- uTraffic Troubleshooting Principles
- Uploading Performance Data
- U2000 Interconnection Faults
- uTraffic Report System Faults
- Import and Export Faults

Training Methods

Lecture

Duration

0.5 working day

Class Size

Min 6, max 12

1.2.14 ONU23 iManager OSS Solution Introduction



Objectives

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

- List OSS development method
- Understand OSS apply for Huawei product
- Understand OSS solution

Target Audience

OSS Technical Manager

Prerequisites

- Having the basic knowledge of NMS

Content

- OSS development introduction
- OSS tendency
- OSS application scenarios
- OSS solution

Training Methods

Lecture

Duration

0.5 working day

Class Size

Min 6, max 12

1.2.15 ONU24 iManager U2000 NBI Operation and maintenance



Objectives

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

- List U2000 NBI types
- Understand U2000 NBI principle
- Complete U2000 NBI configuration

Target Audience

U2000 Administrator

Prerequisites

- Having the basic knowledge of NMS

Content

- U2000 Performance Text NBI Introduction
- Principle of U2000 CORBA Interface
- Integration Process of U2000 and OSS with CORBA Interface
- U2000 CORBA Operations Introduction
- Troubleshooting Thoughts and Cases
- U2000 SNMP Interface Basics
- U2000 SNMP Interface Common Operation
- U2000 SNMP NBI Troubleshooting
- Installing U2000 Performance Text NBI
- Configuring U2000 Performance Text NBI
- Obtaining and Parsing Performance Texts
- PMS Configuration Example
- U2000 XML NBI Basics Introduction
- Overall Functions of the XML NBI
- Configuration of the U2000 XML NBI
- Introduction to XML NBI Logs
- Routine maintenance
- NBI Corba configuration
- NBI SNMP configuration
- NBI performance text configuration
- NBI XML configuration

Training Methods

Lecture, E-lab, Hands-on Exercise

Duration

1 working day

Class Size

Min 6, max 12

