

# **Customer Training Catalog Course Descriptions OSS Product Technical Training**



**HUAWEI**  
**HUAWEI Learning Service**  
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## 1.1 Training Course Descriptions

OSS Product Technical Training Training Courses are designed as follows:

Code	Training Courses	Level	Duration (working days)	Training Location	Class Size
<b>M2000 Training Courses</b>					
NW11	Operation System Management	II	0.3		6 ~ 12
NW12	Database Management	II	0.3		6 ~ 12
NW20	iManager U2000V200R014 System Overview - SUN	I	0.5		6 ~ 12
NW21	iManager U2000V200R014 System Overview - ATAE Cluster	II	0.5		6 ~ 12
NW22	iManager U2000V200R014 OSS Solution - SUN	II	0.5		6 ~ 12
NW23	iManager U2000V200R014 Client Monitor and Maintenance	II	1.2		6 ~ 12
NW24	iManager U2000V200R014 Client Performance and Maintenance	II	0.8		6 ~ 12
NW25	iManager U2000V200R014 System Administration	II	1		6 ~ 12
NW26	iManager U2000V200R014 Server Operation and Maintenance - SUN	II	1.4		6 ~ 12
NW27	iManager U2000V200R014 Troubleshooting	II	0.6		6 ~ 12
NW28	iManager U2000V200R014 ATAE Cluster Server Operation and Maintenance	II	1.2		6 ~ 12
NW40	iManager U2000V200R014 Delta(GUI)	I	1		6 ~ 12
NW29	iManager U2000V200R014 Northbound Interface Introduction	II	0.3		6 ~ 12
NW20	iManager M2000V200R013 System Overview - SUN	I	0.5		6 ~ 12
NW21	iManager M2000V200R013 System Overview - ATAE Cluster	I	0.5		6 ~ 12
NW22	iManager M2000V200R013 OSS Solution - SUN	I	0.5		6 ~ 12
NW23	iManager M2000V200R013 Client Monitor and Maintenance	II	1.2		6 ~ 12
NW24	iManager M2000V200R013 Client Performance and	II	0.8		6 ~ 12

	Maintenance				
NW25	iManager M2000V200R013 System Administration	II	1		6 ~ 12
NW26	iManager M2000V200R013 Server Operation and Maintenance - SUN	II	1.4		6 ~ 12
NW27	iManager M2000V200R013 Troubleshooting	II	0.6		6 ~ 12
NW28	iManager M2000V200R013 ATAE Cluster Server Operation and Maintenance	II	1.2		6 ~ 12
NW40	iManager M2000V200R013 Delta(GUI)	I	1		6 ~ 12
NW29	iManager M2000V200R013 Northbound Interface Introduction	II	0.3		6 ~ 12
<b>PRS Training Courses</b>					
ONR11	iManager PRS V100R006 Client Application	II	1		6 ~ 12
ONR21	iManager PRS V100R007 Client Application	II	1		6 ~ 12
ONR31	iManager PRS V100R008 Client Application	II	1		6 ~ 12
ONR41	iManager PRS V100R009 Client Application	II	1		6 ~ 12
ONR12	iManager PRS V100R006 System Administrator (HP)	II	1		6 ~ 12
ONR22	iManager PRS V100R007 System Administrator (HP)	II	1		6 ~ 12
ONR32	iManager PRS V100R008 System Administrator (HP)	II	1		6 ~ 12
ONR33	iManager PRS V100R008 System Administrator (ATAE)	II	1		6 ~ 12
ONR42	iManager PRS V100R009 System Administrator (HP)	II	1		6 ~ 12
ONR43	iManager PRS V100R009 System Administrator (ATAE)	II	1		6 ~ 12
ONR51	iManager PRS V100R014 Client Application	II	1		6 ~ 12
ONR52	iManager PRS V100R014 System Administrator (ATAE)	II	0.83		6 ~ 12
ONR53	iManager PRS V100R015 Client Application	II	1		6 ~ 12
ONR54	iManager PRS V100R015 System Administrator (ATAE)	II	0.83		6 ~ 12
<b>Nastar Training Courses</b>					
ONO11	iManager Nastar V600R008 GSM Performance Analysis System Application	III	2		6 ~ 12
ONO12	iManager Nastar V600R008 WCDMA Performance Analysis System Application	III	2		6 ~ 12

ONO21	iManager Nastar V600R009 GSM Performance Analysis System Application	III	2		6 ~ 12
ONO22	iManager Nastar V600R009 WCDMA Performance Analysis System Application	III	2		6 ~ 12
ONO31	iManager Nastar V600R010 GSM Performance Analysis System Application	III	2		6 ~ 12
ONO32	iManager Nastar V600R010 WCDMA Performance Analysis System Application	III	2		6 ~ 12
ONO33	iManager Nastar V600R010 LTE Performance Analysis System Application	III	1		6 ~ 12
ONO41	iManager Nastar V600R011 GSM Performance Analysis System Application	III	2		6 ~ 12
ONO42	iManager Nastar V600R011 WCDMA Performance Analysis System Application	III	2		6 ~ 12
ONO43	iManager Nastar V600R011 LTE Performance Analysis System Application	III	1		6 ~ 12
ONO14	iManager Nastar V600R008 System Administrator (HP)	II	1		6 ~ 12
ONO24	iManager Nastar V600R009 System Administrator (HP)	II	1		6 ~ 12
ONO34	iManager Nastar V600R010 System Administrator (HP)	II	1		6 ~ 12
ONO35	iManager Nastar V600R010 System Administrator (ATAE)	II	1		6 ~ 12
ONO44	iManager Nastar V600R011 System Administrator (HP)	II	1		6 ~ 12
ONO45	iManager Nastar V600R011 System Administrator (ATAE)	II	1		6 ~ 12
ONO61	iManager Nastar V600R014 WCDMA Performance Analysis System Application	III	2		6 ~ 12
ONO62	iManager Nastar V600R014 LTE Performance Analysis System Application	III	1		6 ~ 12
ONO63	iManager Nastar V600R014 System Administrator (ATAE)	II	1		6 ~ 12
ONO64	iManager Nastar V600R015 WCDMA Performance Analysis System Application	III	2		6 ~ 12
ONO65	iManager Nastar V600R015 LTE Performance Analysis System Application	III	1		6 ~ 12
ONO66	iManager Nastar V600R015 System Administrator (ATAE)	II	1		6 ~ 12
<b>Probe Training Courses</b>					

ONP11	GENEX Probe V200R003 GSM Operation	II	1		6 ~ 12
ONP12	GENEX Probe V200R003 WCDMA Operation	II	1		6 ~ 12
ONP13	GENEX Probe V200R003 LTE Operation	II	1		6 ~ 12
ONP21	GENEX Probe V300R005 GSM Operation	II	1		6 ~ 12
ONP22	GENEX Probe V300R005 WCDMA Operation	II	1		6 ~ 12
ONP23	GENEX Probe V300R005 LTE Operation	II	1		6 ~ 12
ONP31	GENEX Probe V300R006 GSM Operation	II	1		6 ~ 12
ONP61	GENEX Probe V300R006 WCDMA Operation	II	1		6 ~ 12
ONP62	GENEX Probe V300R006 LTE Operation	II	1		6 ~ 12
ONP63	GENEX Probe V300R015 WCDMA Operation	II	1		6 ~ 12
ONP64	GENEX Probe V300R015 LTE Operation	II	1		6 ~ 12
<b>Assistant Training Courses</b>					
ONA21	GENEX Assistant V300R005 GSM Operation	II	1		6 ~ 12
ONA22	GENEX Assistant V300R005 WCDMA Operation	II	1		6 ~ 12
ONA23	GENEX Assistant V300R005 LTE Operation	II	1		6 ~ 12
ONA31	GENEX Assistant V300R006 GSM Operation	II	1		6 ~ 12
ONA61	GENEX Assistant V300R006 WCDMA Operation	II	1		6 ~ 12
ONA62	GENEX Assistant V300R006 LTE Operation	II	1		6 ~ 12
ONA63	GENEX Assistant V300R015 WCDMA Operation	II	1		6 ~ 12
ONA64	GENEX Assistant V300R015 LTE Operation	II	1		6 ~ 12



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## 1.2 M2000 Training Course Descriptions

### 1.2.1 NW11 Operation System Management



#### Objectives

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

- Describe the commands in UNIX system.
- Grasp the UNIX hard disk management.
- Grasp the UNIX network configuration management.
- Grasp the UNIX backup and restoration.

#### Target Audience

Personnel who works on U2000 server administration

#### Prerequisites

- Having basic knowledge in Solaris

#### Content

- The commands in UNIX system
- The Solaris hard disk management
- The Solaris network configuration management
- The Solaris backup and restoration
- Be able to perform daily inspection and maintenance of the system

#### Training Methods

Lectures

#### Duration

0.3 working day

#### Class Size

Min 6, max 12

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## 1.2.2 NW12 Database Management



### Objectives

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

- Initialize and drop devices in database.
- Define the database parameters.
- Perform database security administration.
- Perform database backup and restore.

### Target Audience

Personnel who works on U  
2000 server administration

### Prerequisites

- Having basic knowledge in Sybase

### Content

- Initialize and drop devices
- Backup the master database after creating or

modifying devices

- Create and modify databases
- Define the database parameters
- Perform database security administration
- Perform database backup and restore

### Training Methods

Lectures

### Duration

0.3 working day

### Class Size

Min 6, max 12

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### 1.2.3 NW20 iManager U2000V200R014 System Overview - SUN



#### Objectives

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

- Describe the overall architecture, hardware architecture, software architecture, typical configuration and interfaces of the U2000V2.
- Describe the software structure of the U2000V2 equipment, the functions of different parts.
- Describe the system reliability of the U2000 system from the aspects of system security.
- Describe the performance specifications of the M2000 system, including system capacity, bandwidth, storage capacity, processing capability, and client number.

#### Target Audience

Personnel who require a general knowledge of iManager U2000V2 system

#### Prerequisites

- Having basic knowledge in telecommunication

#### Content

- The overall architecture, hardware architecture, software architecture, typical configuration and interfaces of the U2000
- The software structure of the U2000V2 equipment, the functions of different parts
- The system reliability of the M2000 system from the aspects of system security, hardware security and operation security
- The performance specifications of the U2000 system, including system capacity, bandwidth, storage capacity, processing capability, and client number

#### Training Methods

Lectures

#### Duration

0.5 working day

#### Class Size

Min 6, max 12

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## 1.2.4 NW21 iManager U2000V200R014 System Overview - ATAE Cluster



### Objectives

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

- Describe ATAE platform
- Master the basic concept and structure of ATAE Cluster
- Master the networking and technology solution of ATAE Cluster

### Target Audience

Personnel who require a general knowledge of iManager U2000V2 ATAE Cluster system

### Prerequisites

- Having basic knowledge in telecommunication

### Content

- The overall hardware architecture and function of ATAE Cluster
- The overall software architecture and principle of ATAE Cluster
- The networking, storage and cluster scheme of ATAE Cluster

### Training Methods

Lectures, Demo, Hands-on Exercise

### Duration

0.5 working day

### Class Size

Min 6, max 12

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## 1.2.5 NW22 iManager U2000V200R014 OSS Solution - SUN



### Objectives

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

- Describe the basic concept of U2000
- Master the structure of M2000 system
- Describe the networking of U2000 system

### Target Audience

Personnel who works on U2000 system administration

### Prerequisites

- Having basic knowledge in telecommunication

### Content

- Introduction to U2000 System
- U2000 Network Solution
- U2000 Software Architecture
- U2000 Hardware Components
- U2000 System Networking

### Training Methods

Lectures

### Duration

0.5 working day

### Class Size

Min 6, max 12

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## 1.2.6 NW23 iManager U2000V200R014 Client Monitor and Maintenance



### Objectives

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

- Describe the alarm categories and levels in U2000V2 system.
- Describe the alarm processing ability supported by the U2000V2 server.
- Browse and query the current alarms in U2000V2 clients.
- Manage the alarm level and name in U2000V2 and NE.
- Describe the performance counter and object categories in U2000V2 system.
- Query the performance result by the setting conditions.
- Export the performance result files.
- Check the performance task status.
- Query the NE configuration data from U2000V2 client.
- Configure data to NE from U2000V2 client.

### Target Audience

U2000V2 Alarm Operation and Maintenance Technician and Engineer

### Prerequisites

- Having basic knowledge in mobile telecommunication

### Content

- The alarm categories and levels
- The alarm processing ability supported by the M2000 server
- Browse the current alarms
- Query the specified alarms by conditions set manually
- Redefine the alarm level in M2000 and in NE
- Modify the alarm name in M2000 and NE
- Set the shield condition in M2000 and NE
- Query the NE configuration data from M2000
- Configure data to NE from M2000

### Training Methods

Lectures, Demo, Hands-on Exercise

### Duration

1.2 working days

### Class Size

Min 6, max 12

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## 1.2.7 NW24 iManager U2000V200R014 Client Performance and Maintenance



### Objectives

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

- Describe the performance counter categories and the difference between them.
- Describe the performance object categories.
- Query the performance result by the setting conditions.
- Export the performance result file.
- Define the performance query template.
- Check the performance task status.

### Target Audience

U2000V2 Performance Operation and Maintenance Technician and Engineer

### Prerequisites

- Having basic knowledge in mobile telecommunication

### Content

- The performance counter categories and the difference between them
- The performance object categories
- Query the performance result by the setting conditions
- Export the performance result file
- Define the performance query template
- Check the performance task status

### Training Methods

Lectures、 Demo、 Hands-on Exercise

### Duration

0.8 working day

### Class Size

Min 6, max 12

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## 1.2.8 NW25 iManager U2000V200R014 System Administration



### Objectives

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

- Describe topology management function and perform topology management.
- Perform U2000V2 system user administration.
- Collect and browse logs from M2000.

### Target Audience

Personnel who works on M2000 system administration

### Prerequisites

- Having basic knowledge in mobile telecommunication

### Content

- Topology Management function and object definition
- Create physical and virtual NE, Subnet and Link
- Manage the NE templates

- Enable/Disable the NE in the Client
- Identify the NE status by the displayed icon and color
- The meaning of O and M user, NE user, category A/B/C NE
- Set security policy parameters
- Manage O and M user and NE user
- Monitor the user status
- The log types in M2000
- Collect and browse logs from M2000
- The function supported by Health Check Tool
- Perform Health Check Tool operation

### Training Methods

Lectures, Demo, Hands-on Exercise

### Duration

1 working day

### Class Size

Min 6, max 12



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## 1.2.9 NW26 iManager U2000V200R014 Server Operation and Maintenance - SUN



### Objectives

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

- Implement the routine maintenance items of U2000V2 such as checking the disk space usage, querying the log information and checking software version.
- Manage the U2000V2 and database processes.
- Perform U2000V2 data backup and restoration.
- Install the U2000V2 system license.
- Install and upgrade the NE mediation software.

### Target Audience

Personnel who works on M2000 server administration

### Prerequisites

- Having basic knowledge in Solaris and Sybase

### Content

- Monitor the real-time situation of CPU, memory, disk and database of M2000 server
- Check, start and stop M2000 processes
- Manage the file system and hard disk
- Introduction to M2000 processes
- The functions of M2000 processes
- Management M2000 processes
- Perform U2000V2 database data backup and restoration
- Perform U2000V2 software structure backup and restoration

### Training Methods

Lectures, Demo, Hands-on Exercise

### Duration

1.4 working days

### Class Size

Min 6, max 12

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## 1.2.10 NW27 iManager U2000V200R014 Troubleshooting



### Objectives

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

- Describe the strictly prohibited operations.
- Describe the method to eliminate faults in U2000V2 system.
- Collect files and logs for U2000V2 problem locating.
- Perform basic troubleshooting to U2000V2 application, database and operating system.

### Target Audience

Personnel who works on M2000 server administration

### Prerequisites

- Upon completion of “ iManager U2000V2

Server Operation and Maintenance” or having equivalent knowledge

### Content

- The strictly prohibited operations
- Perform basic troubleshooting to M2000 application, database and operating system

### Training Methods

Lectures

### Duration

0.6 working day

### Class Size

Min 6, max 12

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## 1.2.11 NW28 iManager U2000V200R014 ATAE Cluster Server Operation and Maintenance



### Objectives

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

- Describe the system structure and basic function of OSMU
- Master the system management of OSMU
- Master the equipment management, service management, software management, general maintenance OSMU
- Master the method to backup and restore the different data types of ATAE Cluster

### Target Audience

Personnel who works on M2000 server administration

### Prerequisites

- Having basic knowledge of U2000V2 ATAE Cluster platform
- Having basic knowledge of M2000

### Content

- Configure, monitor, maintenance and collect information of hardware
- Switch board and storage
- Install and upgrade M2000 server

software, mediation and license

- Commission NBI
- Manage the PRS system on ATAE Cluster
- Manage and maintenance processes of board level or system level
- Manage multi-task of all status
- Collect health information
- Collect ESN and troubleshooting information
- Maintenance time, route and password of the system
- Manage the OSMU board
- The principle of backup and restore
- The scenarios for backup and restore
- Backup and restore OS, static and dynamic data
- Backup and restore data of OSMU

### Training Methods

Lectures, Demo, Hands-on Exercise

### Duration

1.2 working days

### Class Size

Min 6, max 12

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## 1.2.12 NW40 iManager U2000V200R014 Delta(GUI)



### Objectives

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

- The new function of U2000V2R14
- The changes of functions of U2000 GUI between U2000V2R13 and R14 version

### Target Audience

U2000V2 Alarm Operation and Maintenance Technician and Engineer

U2000V2 Performance Operation and Maintenance Technician and Engineer

Personnel who works on U2000 system administration

### Prerequisites

- Having basic knowledge of U2000
- Have done some operations on M2000 GUI

### Content

- The new function of U2000V2R14
- The changes of functions of M2000 GUI between U2000V2R13 and R14 version

### Training Methods

Lectures、Demo、Hands-on Exercise

### Duration

1 working day

### Class Size

Min 6, max 12

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## 1.2.13 NW29 iManager U2000V200R014 Northbound Interface Introduction



### Objectives

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

- The types of U2000 northbound interfaces and their suitable scenarios
- The functions of U2000 northbound interfaces
- How to configure U2000 northbound interfaces
- How to use and maintenance U2000 northbound interfaces

### Target Audience

Personnel who works on U2000 system administration

### Prerequisites

- Having basic knowledge of U2000

### Content

- The types of U2000 northbound interfaces and their suitable scenarios
- The functions of U2000 northbound interfaces
- How to config U2000 northbound interfaces
- How to use and maintenance U2000 northbound interfaces

### Training Methods

Lectures

### Duration

0.3 working day

### Class Size

Min 6, max 12

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## 1.2.14 NW20 iManager M2000V200R013 System Overview - SUN



### Objectives

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

- Describe the overall architecture, hardware architecture, software architecture, typical configuration and interfaces of the M2000V2.
- Describe the software structure of the M2000V2 equipment, the functions of different parts.
- Describe the system reliability of the M2000 system from the aspects of system security.
- Describe the performance specifications of the M2000 system, including system capacity, bandwidth, storage capacity, processing capability, and client number.

### Target Audience

Personnel who require a general knowledge of iManager M2000V2 system

### Prerequisites

- Having basic knowledge in telecommunication

### Content

- The overall architecture, hardware architecture, software architecture, typical configuration and interfaces of the M2000
- The software structure of the M2000V2 equipment, the functions of different parts
- The system reliability of the M2000 system from the aspects of system security, hardware security and operation security
- The performance specifications of the M2000 system, including system capacity, bandwidth, storage capacity, processing capability, and client number

### Training Methods

Lectures

### Duration

0.5 working day

### Class Size

Min 6, max 12

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## 1.2.15 NW21 iManager M2000V200R013 System Overview - ATAE Cluster



### Objectives

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

- Describe ATAE platform
- Master the basic concept and structure of ATAE Cluster
- Master the networking and technology solution of ATAE Cluster

### Target Audience

Personnel who require a general knowledge of iManager M2000V2 ATAE Cluster system

### Prerequisites

- Having basic knowledge in telecommunication

### Content

- The overall hardware architecture and function of ATAE Cluster
- The overall software architecture and principle of ATAE Cluster
- The networking, storage and cluster scheme of ATAE Cluster

### Training Methods

Lectures, Demo, Hands-on Exercise

### Duration

0.5 working day

### Class Size

Min 6, max 12

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## 1.2.16 NW22 iManager M2000V200R013 OSS Solution - SUN



### Objectives

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

- Describe the basic concept of M2000
- Master the structure of M2000 system
- Describe the networking of M2000 system

### Target Audience

Personnel who works on M2000 system administration

### Prerequisites

- Having basic knowledge in telecommunication

### Content

- Introduction to M2000 System
- M2000 Network Solution
- M2000 Software Architecture
- M2000 Hardware Components
- M2000 System Networking

### Training Methods

Lectures

### Duration

0.5 working day

### Class Size

Min 6, max 12



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## 1.2.17 NW23 iManager M2000V200R013 Client Monitor and Maintenance



### Objectives

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

- Describe the alarm categories and levels in M2000V2 system.
- Describe the alarm processing ability supported by the M2000V2 server.
- Browse and query the current alarms in M2000V2 clients.
- Manage the alarm level and name in M2000V2 and NE.
- Describe the performance counter and object categories in M2000V2 system.
- Query the performance result by the setting conditions.
- Export the performance result files.
- Check the performance task status.
- Query the NE configuration data from M2000V2 client.
- Configure data to NE from M2000V2 client.

### Target Audience

M2000V2 Alarm Operation and Maintenance Technician and Engineer

### Prerequisites

- Having basic knowledge in mobile telecommunication

### Content

- The alarm categories and levels
- The alarm processing ability supported by the M2000 server
- Browse the current alarms
- Query the specified alarms by conditions set manually
- Redefine the alarm level in M2000 and in NE
- Modify the alarm name in M2000 and NE
- Set the shield condition in M2000 and NE
- Query the NE configuration data from M2000
- Configure data to NE from M2000

### Training Methods

Lectures, Demo, Hands-on Exercise

### Duration

1.2 working days

### Class Size

Min 6, max 12

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## 1.2.18 NW24 iManager M2000V200R013 Client Performance and Maintenance



### Objectives

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

- Describe the performance counter categories and the difference between them.
- Describe the performance object categories.
- Query the performance result by the setting conditions.
- Export the performance result file.
- Define the performance query template.
- Check the performance task status.

### Target Audience

M2000V2 Performance Operation and Maintenance Technician and Engineer

### Prerequisites

- Having basic knowledge in mobile telecommunication

### Content

- The performance counter categories and the difference between them
- The performance object categories
- Query the performance result by the setting conditions
- Export the performance result file
- Define the performance query template
- Check the performance task status

### Training Methods

Lectures、 Demo、 Hands-on Exercise

### Duration

0.8 working day

### Class Size

Min 6, max 12

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## 1.2.19 NW25 iManager M2000V200R013 System Administration



### Objectives

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

- Describe topology management function and perform topology management.
- Perform M2000V2 system user administration.
- Collect and browse logs from M2000.

### Target Audience

Personnel who works on M2000 system administration

### Prerequisites

- Having basic knowledge in mobile telecommunication

### Content

- Topology Management function and object definition
- Create physical and virtual NE, Subnet and Link
- Manage the NE templates

- Enable/Disable the NE in the Client
- Identify the NE status by the displayed icon and color
- The meaning of O and M user, NE user, category A/B/C NE
- Set security policy parameters
- Manage O and M user and NE user
- Monitor the user status
- The log types in M2000
- Collect and browse logs from M2000
- The function supported by Health Check Tool
- Perform Health Check Tool operation

### Training Methods

Lectures, Demo, Hands-on Exercise

### Duration

1 working day

### Class Size

Min 6, max 12

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## 1.2.20 NW26 iManager M2000V200R013 Server Operation and Maintenance - SUN



### Objectives

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

- Implement the routine maintenance items of M2000V2 such as checking the disk space usage, querying the log information and checking software version.
- Manage the M2000V2 and database processes.
- Perform M2000V2 data backup and restoration.
- Install the M2000V2 system license.
- Install and upgrade the NE mediation software.

### Target Audience

Personnel who works on M2000 server administration

### Prerequisites

- Having basic knowledge in Solaris and Sybase

### Content

- Monitor the real-time situation of CPU, memory, disk and database of M2000 server
- Check, start and stop M2000 processes
- Manage the file system and hard disk
- Introduction to M2000 processes
- The functions of M2000 processes
- Management M2000 processes
- Perform M2000V2 database data backup and restoration
- Perform M2000V2 software structure backup and restoration

### Training Methods

Lectures, Demo, Hands-on Exercise

### Duration

1.4 working days

### Class Size

Min 6, max 12

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## 1.2.21 NW27 iManager M2000V200R013 Troubleshooting



### Objectives

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

- Describe the strictly prohibited operations.
- Describe the method to eliminate faults in M2000V2 system.
- Collect files and logs for M2000V2 problem locating.
- Perform basic troubleshooting to M2000V2 application, database and operating system.

### Target Audience

Personnel who works on M2000 server administration

### Prerequisites

- Upon completion of “ iManager M2000V2

Server Operation and Maintenance” or having equivalent knowledge

### Content

- The strictly prohibited operations
- Perform basic troubleshooting to M2000 application, database and operating system

### Training Methods

Lectures

### Duration

0.6 working day

### Class Size

Min 6, max 12

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## 1.2.22 NW28 iManager M2000V200R013 ATAE Cluster Server Operation and Maintenance



### Objectives

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

- Describe the system structure and basic function of OSMU
- Master the system management of OSMU
- Master the equipment management, service management, software management, general maintenance OSMU
- Master the method to backup and restore the different data types of ATAE Cluster

### Target Audience

Personnel who works on M2000 server administration

### Prerequisites

- Having basic knowledge of M2000V2 ATAE Cluster platform
- Having basic knowledge of M2000

### Content

- Configure, monitor, maintenance and collect information of hardware
- Switch board and storage
- Install and upgrade M2000 server

software, mediation and license

- Commission NBI
- Manage the PRS system on ATAE Cluster
- Manage and maintenance processes of board level or system level
- Manage multi-task of all status
- Collect health information
- Collect ESN and troubleshooting information
- Maintenance time, route and password of the system
- Manage the OSMU board
- The principle of backup and restore
- The scenarios for backup and restore
- Backup and restore OS, static and dynamic data
- Backup and restore data of OSMU

### Training Methods

Lectures, Demo, Hands-on Exercise

### Duration

1.2 working days

### Class Size

Min 6, max 12

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### 1.2.23 NW40 iManager M2000V200R013 Delta(GUI)



#### Objectives

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

- The new function of M2000V2R13
- The changes of functions of M2000 GUI between M2000V2R12 and R13 version

#### Target Audience

M2000V2 Alarm Operation and Maintenance Technician and Engineer

M2000V2 Performance Operation and Maintenance Technician and Engineer

Personnel who works on M2000 system administration

#### Prerequisites

- Having basic knowledge of M2000
- Have done some operations on M2000 GUI

#### Content

- The new function of M2000V2R13
- The changes of functions of M2000 GUI between M2000V2R12 and R13 version

#### Training Methods

Lectures、Demo、Hands-on Exercise

#### Duration

1 working day

#### Class Size

Min 6, max 12

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## 1.2.24 NW29 iManager M2000V200R013 Northbound Interface Introduction



### Objectives

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

- The types of M2000 northbound interfaces and their suitable scenarios
- The functions of M2000 northbound interfaces
- How to configure M2000 northbound interfaces
- How to use and maintenance M2000 northbound interfaces

### Target Audience

Personnel who works on M2000 system administration

### Prerequisites

- Having basic knowledge of M2000

### Content

- The types of M2000 northbound interfaces and their suitable scenarios
- The functions of M2000 northbound interfaces
- How to config M2000 northbound interfaces
- How to use and maintenance M2000 northbound interfaces

### Training Methods

Lectures

### Duration

0.3 working day

### Class Size

Min 6, max 12



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## 1.3 PRS Training Course Descriptions

### 1.3.1 ONR11 iManager PRS V100R006 Client Application



#### Objectives

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

- Describe the structure and data processing procedure of PRS system
- Describe the functions and features of PRS system
- Perform routine PRS client operations such as KPI management, performance report management and etc

#### Target Audience

Radio Network Optimization Engineers

#### Prerequisites

- Having basic knowledge in wireless network performance management

#### Content

- PRS Network Topology
- Features of PRS
- Architecture of PRS

- Typical Configurations of PRS
- Technical Specifications of PRS
- Routine Operations on PRS Client
- Functions Related to Performance Report
- Managing Engineering Parameters
- Managing Object Groups
- Managing KPIs
- Managing Customized Performance Reports
- Generating a Performance Report File on Schedule
- Monitoring the Performance of the Network

#### Training Methods

Lectures, Demo, Hands-on Exercise

#### Duration

1 working day

#### Class Size

Min 6, max 12

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### 1.3.2 ONR21 iManager PRS V100R007 Client Application



#### Objectives

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

- Describe the structure and data processing procedure of PRS system
- Describe the functions and features of PRS system
- Perform routine PRS client operations such as KPI management, performance report management and etc

#### Target Audience

Radio Network Optimization Engineers

#### Prerequisites

- Having basic knowledge in wireless network performance management

#### Content

- PRS Network Topology
- Features of PRS
- Architecture of PRS

- Typical Configurations of PRS
- Technical Specifications of PRS
- Routine Operations on PRS Client
- Functions Related to Performance Report
- Managing Engineering Parameters
- Managing Object Groups
- Managing KPIs
- Managing Customized Performance Reports
- Generating a Performance Report File on Schedule
- Monitoring the Performance of the Network

#### Training Methods

Lectures、Demo、Hands-on Exercise

#### Duration

1 working day

#### Class Size

Min 6, max 12

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### 1.3.3 ONR31 iManager PRS V100R008 Client Application



#### Objectives

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

- Describe the structure and data processing procedure of PRS system
- Describe the functions and features of PRS system
- Perform routine PRS client operations such as KPI management, performance report management and etc

#### Target Audience

Radio Network Optimization Engineers

#### Prerequisites

- Having basic knowledge in wireless network performance management

#### Content

- PRS Network Topology
- Features of PRS
- Architecture of PRS

- Typical Configurations of PRS
- Technical Specifications of PRS
- Routine Operations on PRS Client
- Functions Related to Performance Report
- Managing Engineering Parameters
- Managing Object Groups
- Managing KPIs
- Managing Customized Performance Reports
- Generating a Performance Report File on Schedule
- Monitoring the Performance of the Network

#### Training Methods

Lectures、Demo、Hands-on Exercise

#### Duration

1 working day

#### Class Size

Min 6, max 12

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### 1.3.4 ONR41 iManager PRS V100R009 Client Application



#### Objectives

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

- Describe the structure and data processing procedure of PRS system
- Describe the functions and features of PRS system
- Perform routine PRS client operations such as KPI management, performance report management and etc

#### Target Audience

Radio Network Optimization Engineers

#### Prerequisites

- Having basic knowledge in wireless network performance management

#### Content

- PRS Network Topology
- Features of PRS
- Architecture of PRS
- Application Scenario of PRS
- Typical Configurations of PRS

- Technical Specifications of PRS
- Routine Operations on PRS Client
- Data Collection
- Processing Flow in PRS
- Configuring the Running Rules of PRS with administration Tool
- Functions Related to Performance Report
- Managing Engineering Parameters
- Managing Object Groups
- Managing KPIs
- Managing Customized Performance Reports
- Generating a Performance Report File on Schedule
- Monitoring the Performance of the Network

#### Training Methods

Lectures、Demo、Hands-on Exercise

#### Duration

1 working day

#### Class Size

Min 6, max 12

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### 1.3.5 ONR12 iManager PRS V100R006 System Administrator (HP)



#### Objectives

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

- Describe topology management function and perform topology management.
- Describe the security management of PRS system.
- Perform PRS system user administration.
- Collect and browse logs from PRS.

#### Target Audience

PRS System Administrator

#### Prerequisites

- Having basic knowledge in telecommunication and Huawei Equipment

#### Content

- PRS Network Topology
- Features of PRS
- Architecture of PRS
- Typical Configurations of PRS
- Technical Specifications of PRS
- Managing Files and Disks of PRS Server
- Monitoring PRS Server with PRS Client

- Managing PRS Logs
- Managing PRS Users
- Managing PRS System Processes and Services
- Managing PRS Database
- Back Up and Restoring PRS system
- PRS Security Management Overview
- PRS Security Management Operation
- Data Collection
- Processing Flow in PRS
- Operation Procedure for Data Collection in PRS
- administration Tool Overview
- Counter Setting
- System Setting

#### Training Methods

Lectures

#### Duration

1 working day

#### Class Size

Min 6, max 12

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## 1.3.6 ONR22 iManager PRS V100R007 System Administrator (HP)



### Objectives

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

- Describe topology management function and perform topology management.
- Describe the security management of PRS system.
- Perform PRS system user administration.
- Collect and browse logs from PRS.

### Target Audience

PRS System Administrator

### Prerequisites

- Having basic knowledge in telecommunication and Huawei Equipment

### Content

- PRS Network Topology
- Features of PRS
- Architecture of PRS
- Typical Configurations of PRS
- Technical Specifications of PRS
- Managing Files and Disks of PRS Server
- Monitoring PRS Server with PRS Client

- Managing PRS Logs
- Managing PRS Users
- Managing PRS System Processes and Services
- Managing PRS Database
- Back Up and Restoring PRS system
- PRS Security Management Overview
- PRS Security Management Operation
- Data Collection
- Processing Flow in PRS
- Operation Procedure for Data Collection in PRS
- administration Tool Overview
- Counter Setting
- System Setting

### Training Methods

Lectures

### Duration

1 working day

### Class Size

Min 6, max 12

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### 1.3.7 ONR32 iManager PRS V100R008 System Administrator (HP)



#### Objectives

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

- Describe topology management function and perform topology management.
- Describe the security management of PRS system.
- Perform PRS system user administration.
- Collect and browse logs from PRS.

#### Target Audience

PRS System Administrator

#### Prerequisites

- Having basic knowledge in telecommunication and Huawei Equipment

#### Content

- PRS Network Topology
- Features of PRS
- Architecture of PRS
- Typical Configurations of PRS
- Technical Specifications of PRS
- Managing Files and Disks of PRS Server
- Monitoring PRS Server with PRS Client

- Managing PRS Logs
- Managing PRS Users
- Managing PRS System Processes and Services
- Managing PRS Database
- Back Up and Restoring PRS system
- PRS Security Management Overview
- PRS Security Management Operation
- Data Collection
- Processing Flow in PRS
- Operation Procedure for Data Collection in PRS
- administration Tool Overview
- Counter Setting
- System Setting

#### Training Methods

Lectures

#### Duration

1 working day

#### Class Size

Min 6, max 12

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### 1.3.8 ONR33 iManager PRS V100R008 System Administrator (ATAE)



#### Objectives

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

- Describe topology management function and perform topology management.
- Describe the security management of PRS system.
- Perform PRS system user administration.
- Collect and browse logs from PRS.

#### Target Audience

PRS System Administrator

#### Prerequisites

- Having basic knowledge in telecommunication and Huawei Equipment

#### Content

- PRS Network Topology
- Features of PRS
- Architecture of PRS
- Typical Configurations of PRS
- Technical Specifications of PRS
- Managing Files and Disks of PRS Server
- Monitoring PRS Server with PRS Client

- Managing PRS Logs
- Managing PRS Users
- Managing PRS System Processes and Services
- Managing PRS Database
- Back Up and Restoring PRS system
- PRS Security Management Overview
- PRS Security Management Operation
- Data Collection
- Processing Flow in PRS
- Operation Procedure for Data Collection in PRS
- administration Tool Overview
- Counter Setting
- System Setting

#### Training Methods

Lectures

#### Duration

1 working day

#### Class Size

Min 6, max 12



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### 1.3.9 ONR42 iManager PRS V100R009 System Administrator (HP)



#### Objectives

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

- Describe topology management function and perform topology management.
- Describe the security management of PRS system.
- Perform PRS system user administration.
- Collect and browse logs from PRS.

#### Target Audience

PRS System Administrator

#### Prerequisites

- Having basic knowledge in telecommunication and Huawei Equipment

#### Content

- PRS Network Topology
- Features of PRS
- Architecture of PRS
- Application Scenario of PRS
- Typical Configurations of PRS
- Technical Specifications of PRS
- Managing Files and Disks of PRS Server

- Monitoring PRS Server with PRS Client
- Managing PRS Logs
- Managing PRS Users
- Managing PRS System Processes and Services
- Managing PRS Database
- Back Up and Restoring PRS system
- PRS Security Management Overview
- PRS Security Management Operation
- Data Collection
- Processing Flow in PRS
- Operation Procedure for Data Collection in PRS
- administration Tool Overview
- Counter Setting
- System Setting

#### Training Methods

Lectures

#### Duration

1 working day

#### Class Size

Min 6, max 12

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### 1.3.10 ONR43 iManager PRS V100R009 System Administrator (ATAE)



#### Objectives

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

- Describe topology management function and perform topology management.
- Describe the security management of PRS system.
- Perform PRS system user administration.
- Collect and browse logs from PRS.

#### Target Audience

PRS System Administrator

#### Prerequisites

- Having basic knowledge in telecommunication and Huawei Equipment

#### Content

- PRS Network Topology
- Features of PRS
- Architecture of PRS
- Application Scenario of PRS
- Typical Configurations of PRS
- Technical Specifications of PRS
- Managing Files and Disks of PRS Server

- Monitoring PRS Server with PRS Client
- Managing PRS Logs
- Managing PRS Users
- Managing PRS System Processes and Services
- Managing PRS Database
- Back Up and Restoring PRS system
- PRS Security Management Overview
- PRS Security Management Operation
- Data Collection
- Processing Flow in PRS
- Operation Procedure for Data Collection in PRS
- administration Tool Overview
- Counter Setting
- System Setting

#### Training Methods

Lectures

#### Duration

1 working day

#### Class Size

Min 6, max 12

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### 1.3.11 ONR51 iManager PRS V100R014 Client Application



#### Objectives

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

- Describe the structure and data processing procedure of PRS system
- Describe the functions and features of PRS system
- Perform routine PRS client operations such as KPI management, performance report management and etc

#### Target Audience

Radio Network Optimization Engineers

#### Prerequisites

- Having basic knowledge in wireless network performance management

#### Content

- PRS Network Topology
- Features of PRS
- Architecture of PRS
- Application Scenario of PRS
- Typical Configurations of PRS

- Technical Specifications of PRS
- Routine Operations on PRS Client
- Data Collection
- Processing Flow in PRS
- Configuring the Running Rules of PRS with administration Tool
- Functions Related to Performance Report
- Managing Engineering Parameters
- Managing Object Groups
- Managing KPIs
- Managing Customized Performance Reports
- Generating a Performance Report File on Schedule
- Monitoring the Performance of the Network

#### Training Methods

Lectures、Demo、Hands-on Exercise

#### Duration

1 working day

#### Class Size

Min 6, max 12

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### 1.3.12 ONR52 iManager PRS V100R014 System Administrator (ATAE)



#### Objectives

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

- Describe topology management function and perform topology management.
- Describe the security management of PRS system.
- Perform PRS system user administration.
- Collect and browse logs from PRS.

#### Target Audience

PRS System Administrator

#### Prerequisites

- Having basic knowledge in telecommunication and Huawei Equipment

#### Content

- PRS Network Topology
- Features of PRS
- Architecture of PRS
- Application Scenario of PRS
- Typical Configurations of PRS
- Technical Specifications of PRS

- PRS Security Management Overview
- PRS Security Management Operation
- Data Collection
- Processing Flow in PRS
- Operation Procedure for Data Collection in PRS
- Managing Files and Disks of PRS Server
- Monitoring PRS Server with PRS Client
- Managing PRS Logs
- Managing PRS Users
- Managing PRS System Processes and Services
- Managing PRS Database
- Back Up and Restoring PRS system

#### Training Methods

Lectures

#### Duration

1 working day

#### Class Size

Min 6, max 12

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### 1.3.13 ONR53 iManager PRS V100R015 Client Application



#### Objectives

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

- Describe the structure and data processing procedure of PRS system
- Describe the functions and features of PRS system
- Perform routine PRS client operations such as KPI management, performance report management and etc

#### Target Audience

Radio Network Optimization Engineers

#### Prerequisites

- Having basic knowledge in wireless network performance management

#### Content

- PRS Network Topology
- Features of PRS
- Architecture of PRS
- Application Scenario of PRS
- Typical Configurations of PRS
- Technical Specifications of PRS
- Routine Operations on PRS Client
- Data Collection
- Processing Flow in PRS
- Configuring the Running Rules of PRS with administration Tool
- Functions Related to Performance Report
- Managing Engineering Parameters
- Managing Object Groups
- Managing KPIs
- Managing Customized Performance Reports
- Generating a Performance Report File on Schedule
- Monitoring the Performance of the Network

#### Training Methods

Lectures, Demo, Hands-on Exercise

#### Duration

1 working day

#### Class Size

Min 6, max 12

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### 1.3.14 ONR54 iManager PRS V100R015 System Administrator (ATAE)



#### Objectives

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

- Describe topology management function and perform topology management.
- Describe the security management of PRS system.
- Perform PRS system user administration.
- Collect and browse logs from PRS.

#### Training Methods

Lectures

#### Duration

1 working day

#### Class Size

Min 6, max 12

#### Target Audience

PRS System Administrator

#### Prerequisites

- Having basic knowledge in telecommunication and Huawei Equipment

#### Content

- PRS Network Topology
- Features of PRS
- Architecture of PRS
- Application Scenario of PRS
- Typical Configurations of PRS
- Technical Specifications of PRS
- PRS Security Management Overview
- PRS Security Management Operation
- Data Collection
- Processing Flow in PRS
- Operation Procedure for Data Collection in PRS
- Managing Files and Disks of PRS Server
- Monitoring PRS Server with PRS Client
- Managing PRS Logs
- Managing PRS Users
- Managing PRS System Processes and Services
- Managing PRS Database
- Back Up and Restoring PRS system

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## 1.4 Nastar Training Course Descriptions

### 1.4.1 ONO11 iManager Nastar V600R008 GSM Performance Analysis System

#### Application



#### Objectives

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

- Describe the structure and the data collection procedure of iManager Nastar
- Describe the network optimization procedure with Nastar
- Perform routine operations with Nastar client
- Perform different GSM analysis tasks such as GSM MR analysis, GSM neighboring cell analysis, GSM frequency analysis and etc

#### Target Audience

GSM Radio Network Optimization Engineers

#### Prerequisites

- Having basic knowledge in GSM radio network optimization

#### Content

- Introduction
- Architecture
- Configurations and Technical Specifications
- Data Collection and Processing Flow in Nastar

- Operation Procedure for Data Collection in Nastar
- Network Optimization Procedure with Nastar
- Routine Operation on Nastar Client
- Nastar GSM Analysis Tasks
- GSM MR Analysis
- GSM Neighboring Cell Analysis
- GSM/UMTS Neighboring Cell Analysis
- GSM Frequency Analysis
- GSM Uplink Interference Analysis
- GSM VIP Analysis
- GSM Complaint Analysis Support
- GSM Cell Performance Analysis
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#### Training Methods

Lectures、 Demo、 Hands-on Exercise

#### Duration

2 working days

#### Class Size

Min 6, max 12

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## 1.4.2 ONO12 iManager Nastar V600R008 WCDMA Performance Analysis System Application



### Objectives

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

- Describe the structure and the data collection procedure of iManager Nastar
- Describe the network optimization procedure with Nastar
- Perform routine operations with Nastar client
- Perform different UMTS analysis tasks such as Coverage Analysis, Uplink Interference Analysis, Intra-frequency Neighboring Cell Analysis, Pilot Pollution Analysis and etc

### Target Audience

WCDMA Radio Network Optimization Engineers

### Prerequisites

- Having basic knowledge in WCDMA radio network optimization

### Content

- Introduction
- Architecture
- Configurations and Technical Specifications

- Data Collection and Processing Flow in Nastar
- Operation Procedure for Data Collection in Nastar
- Network Optimization Procedure with Nastar
- Routine Operation on Nastar Client
- Nastar UMTS Analysis Tasks
- Coverage Analysis
- Uplink Interference Analysis
- Intra-frequency Neighboring Cell Analysis
- UMTS/GSM Neighboring Cell Analysis
- Pilot Pollution Analysis
- VIP Analysis
- Complaint Analysis
- Cell Performance Analysis

### Training Methods

Lectures, Demo, Hands-on Exercise

### Duration

2 working days

### Class Size

Min 6, max 12



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### 1.4.3 ONO21 iManager Nastar V600R009 GSM Performance Analysis System Application



#### Objectives

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

- Describe the structure and the data collection procedure of iManager Nastar
- Describe the network optimization procedure with Nastar
- Perform routine operations with Nastar client
- Perform different GSM analysis tasks such as GSM MR analysis, GSM neighboring cell analysis, GSM frequency analysis and etc

#### Target Audience

GSM Radio Network Optimization Engineers

#### Prerequisites

- Having basic knowledge in GSM radio network optimization

#### Content

- Introduction
- Architecture
- Configurations and Technical Specifications
- Data Collection and Processing Flow in Nastar

- Operation Procedure for Data Collection in Nastar
- Network Optimization Procedure with Nastar
- Routine Operation on Nastar Client
- Nastar GSM Analysis Tasks
- GSM MR Analysis
- GSM Neighboring Cell Analysis
- GSM/UMTS Neighboring Cell Analysis
- GSM Frequency Analysis
- GSM Uplink Interference Analysis
- GSM VIP Analysis
- GSM Complaint Analysis Support
- GSM Cell Performance Analysis

#### Training Methods

Lectures、 Demo、 Hands-on Exercise

#### Duration

2 working days

#### Class Size

Min 6, max 12

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## 1.4.4 ONO22 iManager Nastar V600R009 WCDMA Performance Analysis System Application



### Objectives

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

- Describe the structure and the data collection procedure of iManager Nastar
- Describe the network optimization procedure with Nastar
- Perform routine operations with Nastar client
- Perform different UMTS analysis tasks such as Coverage Analysis, Uplink Interference Analysis, Intra-frequency Neighboring Cell Analysis, Pilot Pollution Analysis and etc

### Target Audience

WCDMA Radio Network Optimization Engineers

### Prerequisites

- Having basic knowledge in WCDMA radio network optimization

### Content

- Introduction
- Architecture
- Configurations and Technical Specifications

- Data Collection and Processing Flow in Nastar
- Operation Procedure for Data Collection in Nastar
- Network Optimization Procedure with Nastar
- Routine Operation on Nastar Client
- Nastar UMTS Analysis Tasks
- Coverage Analysis
- Uplink Interference Analysis
- Intra-frequency Neighboring Cell Analysis
- UMTS/GSM Neighboring Cell Analysis
- Pilot Pollution Analysis
- VIP Analysis
- Complaint Analysis
- Cell Performance Analysis

### Training Methods

Lectures, Demo, Hands-on Exercise

### Duration

2 working days

### Class Size

Min 6, max 12

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## 1.4.5 ONO31 iManager Nastar V600R010 GSM Performance Analysis System Application



### Objectives

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

- Describe the structure and the data collection procedure of iManager Nastar
- Describe the network optimization procedure with Nastar
- Perform routine operations with Nastar client
- Perform different GSM analysis tasks such as GSM MR analysis, GSM neighboring cell analysis, GSM frequency analysis and etc

### Target Audience

GSM Radio Network Optimization Engineers

### Prerequisites

- Having basic knowledge in GSM radio network optimization

### Content

- Introduction
- Architecture
- Configurations and Technical Specifications
- Data Collection and Processing Flow in Nastar

- Operation Procedure for Data Collection in Nastar
- Network Optimization Procedure with Nastar
- Routine Operation on Nastar Client
- Nastar GSM Analysis Tasks
- GSM MR Analysis
- GSM Neighboring Cell Analysis
- GSM/UMTS Neighboring Cell Analysis
- GSM Frequency Analysis
- GSM Uplink Interference Analysis
- GSM VIP Analysis
- GSM Complaint Analysis Support
- GSM Cell Performance Analysis

### Training Methods

Lectures, Demo, Hands-on Exercise

### Duration

2 working days

### Class Size

Min 6, max 12

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## 1.4.6 ONO32 iManager Nastar V600R010 WCDMA Performance Analysis System Application



### Objectives

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

- Describe the structure and the data collection procedure of iManager Nastar
- Describe the network optimization procedure with Nastar
- Perform routine operations with Nastar client
- Perform different UMTS analysis tasks such as Coverage Analysis, Uplink Interference Analysis, Intra-frequency Neighboring Cell Analysis, Pilot Pollution Analysis and etc

### Target Audience

WCDMA Radio Network Optimization Engineers

### Prerequisites

- Having basic knowledge in WCDMA radio network optimization

### Content

- Introduction
- Architecture
- Configurations and Technical Specifications

- Data Collection and Processing Flow in Nastar
- Operation Procedure for Data Collection in Nastar
- Network Optimization Procedure with Nastar
- Routine Operation on Nastar Client
- Nastar UMTS Analysis Tasks
- Coverage Analysis
- Uplink Interference Analysis
- Intra-frequency Neighboring Cell Analysis
- UMTS/GSM Neighboring Cell Analysis
- Pilot Pollution Analysis
- VIP Analysis
- Complaint Analysis
- Cell Performance Analysis

### Training Methods

Lectures, Demo, Hands-on Exercise

### Duration

2 working days

### Class Size

Min 6, max 12

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## 1.4.7 ONO33 iManager Nastar V600R010 LTE Performance Analysis System Application



### Objectives

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

- Describe the structure and the data collection procedure of iManager Nastar
- Describe the network optimization procedure with Nastar
- Perform routine operations with Nastar client
- Perform different LTE analysis tasks such as Coverage Analysis, VIP Analysis, Complaint Analysis Support, Terminal Analysis, Cell Performance Analysis, Network Geographic Observation etc.

### Target Audience

LTE Radio Network Optimization Engineers

### Prerequisites

- Having basic knowledge in WCDMA radio network optimization

### Content

- Introduction

- Architecture
- Configurations and Technical Specifications
- Data Collection and Processing Flow in Nastar
- Operation Procedure for Data Collection in Nastar
- Network Optimization Procedure with Nastar
- Routine Operation on Nastar Client
- Nastar LTE Analysis Tasks
- Coverage Analysis
- VIP Analysis
- Complaint Analysis Support
- Terminal Analysis
- Cell Performance Analysis
- Network Geographic Observation

### Training Methods

Lectures, Demo

### Duration

1 working day

### Class Size

Min 6, max 12

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## 1.4.8 ONO41 iManager Nastar V600R011 GSM Performance Analysis System Application



### Objectives

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

- Describe the structure and the data collection procedure of iManager Nastar
- Describe the network optimization procedure with Nastar
- Perform routine operations with Nastar client
- Perform different GSM analysis tasks such as GSM MR analysis, GSM neighboring cell analysis, GSM frequency analysis and etc

### Target Audience

GSM Radio Network Optimization Engineers

### Prerequisites

- Having basic knowledge in GSM radio network optimization

### Content

- Introduction
- Architecture
- Configurations and Technical Specifications
- Data Collection and Processing Flow in Nastar

- Operation Procedure for Data Collection in Nastar
- Network Optimization Procedure with Nastar
- Routine Operation on Nastar Client
- Nastar GSM Analysis Tasks
- GSM MR Analysis
- GSM Neighboring Cell Analysis
- GSM/UMTS Neighboring Cell Analysis
- GSM Frequency Analysis
- GSM Uplink Interference Analysis
- GSM VIP Analysis
- GSM Complaint Analysis Support
- GSM Cell Performance Analysis

### Training Methods

Lectures, Demo, Hands-on Exercise

### Duration

2 working days

### Class Size

Min 6, max 12

---

## 1.4.9 ONO42 iManager Nastar V600R011 WCDMA Performance Analysis System Application



### Objectives

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

- Describe the structure and the data collection procedure of iManager Nastar
- Describe the network optimization procedure with Nastar
- Perform routine operations with Nastar client
- Perform different UMTS analysis tasks such as Coverage Analysis, Uplink Interference Analysis, Intra-frequency Neighboring Cell Analysis, Pilot Pollution Analysis and etc

### Target Audience

WCDMA Radio Network Optimization Engineers

### Prerequisites

- Having basic knowledge in WCDMA radio network optimization

### Content

- Introduction
- Architecture
- Configurations and Technical Specifications

- Data Collection and Processing Flow in Nastar
- Operation Procedure for Data Collection in Nastar
- Network Optimization Procedure with Nastar
- Routine Operation on Nastar Client
- Nastar UMTS Analysis Tasks
- Coverage Analysis
- Uplink Interference Analysis
- Intra-frequency Neighboring Cell Analysis
- UMTS/GSM Neighboring Cell Analysis
- Pilot Pollution Analysis
- VIP Analysis
- Complaint Analysis
- Cell Performance Analysis

### Training Methods

Lectures, Demo, Hands-on Exercise

### Duration

2 working days

### Class Size

Min 6, max 12

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## 1.4.10 ONO43 iManager Nastar V600R011 LTE Performance Analysis System Application



### Objectives

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

- Describe the structure and the data collection procedure of iManager Nastar
- Describe the network optimization procedure with Nastar
- Perform routine operations with Nastar client
- Perform different LTE analysis tasks such as Coverage Analysis, VIP Analysis, Complaint Analysis Support, Terminal Analysis, Cell Performance Analysis, Network Geographic Observation etc.

### Target Audience

LTE Radio Network Optimization Engineers

### Prerequisites

- Having basic knowledge in WCDMA radio network optimization

### Content

- Introduction

- Architecture
- Configurations and Technical Specifications
- Data Collection and Processing Flow in Nastar
- Operation Procedure for Data Collection in Nastar
- Network Optimization Procedure with Nastar
- Routine Operation on Nastar Client
- Nastar LTE Analysis Tasks
- Coverage Analysis
- VIP Analysis
- Complaint Analysis Support
- Terminal Analysis
- Cell Performance Analysis
- Network Geographic Observation

### Training Methods

Lectures, Demo

### Duration

1 working day

### Class Size

Min 6, max 12



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## 1.4.11 ONO14 iManager Nastar V600R008 System Administrator (HP)



### Objectives

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

- Describe topology management function and perform topology management.
- Describe the security management of Nastar system.
- Perform Nastar system user administration.
- Collect and browse logs from Nastar.

### Target Audience

Nastar System Administrator

### Prerequisites

- Having basic knowledge in telecommunication and Huawei Equipment

### Content

- Introduction
- Architecture
- Configurations and Technical Specifications

- Managing Nastar Users
- Managing Nastar Logs
- Monitoring the Nastar System
- Managing Nastar Processes and Services
- Managing the Nastar System Database
- Managing Files and Disks of the Nastar Server
- Backing Up and Restoring Nastar Dynamic data
- Nastar Security Introduction
- Operations about Nastar Security Management

### Training Methods

Lectures

### Duration

1 working day

### Class Size

Min 6, max 12

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## 1.4.12 ONO24 iManager Nastar V600R009 System Administrator (HP)



### Objectives

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

- Describe topology management function and perform topology management.
- Describe the security management of Nastar system.
- Perform Nastar system user administration.
- Collect and browse logs from Nastar.

### Target Audience

Nastar System Administrator

### Prerequisites

- Having basic knowledge in telecommunication and Huawei Equipment

### Content

- Introduction
- Architecture
- Configurations and Technical Specifications

- Managing Nastar Users
- Managing Nastar Logs
- Monitoring the Nastar System
- Managing Nastar Processes and Services
- Managing the Nastar System Database
- Managing Files and Disks of the Nastar Server
- Backing Up and Restoring Nastar Dynamic data
- Nastar Security Introduction
- Operations about Nastar Security Management

### Training Methods

Lectures

### Duration

1 working day

### Class Size

Min 6, max 12

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### 1.4.13 ONO34 iManager Nastar V600R010 System Administrator (HP)



#### Objectives

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

- Describe topology management function and perform topology management.
- Describe the security management of Nastar system.
- Perform Nastar system user administration.
- Collect and browse logs from Nastar.

#### Target Audience

Nastar System Administrator

#### Prerequisites

- Having basic knowledge in telecommunication and Huawei Equipment

#### Content

- Introduction
- Architecture
- Configurations and Technical Specifications

- Managing Nastar Users
- Managing Nastar Logs
- Monitoring the Nastar System
- Managing Nastar Processes and Services
- Managing the Nastar System Database
- Managing Files and Disks of the Nastar Server
- Backing Up and Restoring Nastar Dynamic data
- Nastar Security Introduction
- Operations about Nastar Security Management

#### Training Methods

Lectures

#### Duration

1 working day

#### Class Size

Min 6, max 12

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## 1.4.14 ONO35 iManager Nastar V600R010 System Administrator (ATAE)



### Objectives

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

- Describe topology management function and perform topology management.
- Describe the security management of Nastar system.
- Perform Nastar system user administration.
- Collect and browse logs from Nastar.

### Target Audience

Nastar System Administrator

### Prerequisites

- Having basic knowledge in telecommunication and Huawei Equipment

### Content

- Introduction
- Architecture
- Configurations and Technical Specifications

- Managing Nastar Users
- Managing Nastar Logs
- Monitoring the Nastar System
- Managing Nastar Processes and Services
- Managing the Nastar System Database
- Managing Files and Disks of the Nastar Server
- Backing Up and Restoring Nastar Dynamic data
- Nastar Security Introduction
- Operations about Nastar Security Management

### Training Methods

Lectures

### Duration

1 working day

### Class Size

Min 6, max 12

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## 1.4.15 ONO44 iManager Nastar V600R011 System Administrator (HP)



### Objectives

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

- Describe topology management function and perform topology management.
- Describe the security management of Nastar system.
- Perform Nastar system user administration.
- Collect and browse logs from Nastar.

### Target Audience

Nastar System Administrator

### Prerequisites

- Having basic knowledge in telecommunication and Huawei Equipment

### Content

- Introduction
- Architecture
- Configurations and Technical Specifications

- Managing Nastar Users
- Managing Nastar Logs
- Monitoring the Nastar System
- Managing Nastar Processes and Services
- Managing the Nastar System Database
- Managing Files and Disks of the Nastar Server
- Backing Up and Restoring Nastar Dynamic data
- Nastar Security Introduction
- Operations about Nastar Security Management

### Training Methods

Lectures

### Duration

1 working day

### Class Size

Min 6, max 12

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## 1.4.16 ONO45 iManager Nastar V600R011 System Administrator (ATAE)



### Objectives

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

- Describe topology management function and perform topology management.
- Describe the security management of Nastar system.
- Perform Nastar system user administration.
- Collect and browse logs from Nastar.

### Target Audience

Nastar System Administrator

### Prerequisites

- Having basic knowledge in telecommunication and Huawei Equipment

### Content

- Introduction
- Architecture
- Configurations and Technical Specifications

- Managing Nastar Users
- Managing Nastar Logs
- Monitoring the Nastar System
- Managing Nastar Processes and Services
- Managing the Nastar System Database
- Managing Files and Disks of the Nastar Server
- Backing Up and Restoring Nastar Dynamic data
- Nastar Security Introduction
- Operations about Nastar Security Management

### Training Methods

Lectures

### Duration

1 working day

### Class Size

Min 6, max 12

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## 1.4.17 ONO61 iManager Nastar V600R014 WCDMA Performance Analysis System Application



### Objectives

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

- Describe the structure and the data collection procedure of iManager Nastar
- Describe the network optimization procedure with Nastar
- Perform routine operations with Nastar client
- Perform different UMTS analysis tasks such as Coverage Analysis, Uplink Interference Analysis, Intra-frequency Neighboring Cell Analysis, Pilot Pollution Analysis and etc

### Target Audience

WCDMA Radio Network Optimization Engineers

### Prerequisites

- Having basic knowledge in WCDMA radio network optimization

### Content

- Introduction
- Architecture
- Configurations and Technical Specifications

- Data Collection and Processing Flow in Nastar
- Operation Procedure for Data Collection in Nastar
- Network Optimization Procedure with Nastar
- Routine Operation on Nastar Client
- Nastar UMTS Analysis Tasks
- Coverage Analysis
- Uplink Interference Analysis
- Intra-frequency Neighboring Cell Analysis
- UMTS/GSM Neighboring Cell Analysis
- Pilot Pollution Analysis
- VIP Analysis
- Complaint Analysis
- Cell Performance Analysis

### Training Methods

Lectures, Demo, Hands-on Exercise

### Duration

2 working days

### Class Size

Min 6, max 12

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## 1.4.18 ONO62 iManager Nastar V600R014 LTE Performance Analysis System Application



### Objectives

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

- Describe the structure and the data collection procedure of iManager Nastar
- Describe the network optimization procedure with Nastar
- Perform routine operations with Nastar client
- Perform different LTE analysis tasks such as Coverage Analysis, VIP Analysis, Complaint Analysis Support, Terminal Analysis, Cell Performance Analysis, Network Geographic Observation etc.

### Target Audience

LTE Radio Network Optimization Engineers

### Prerequisites

- Having basic knowledge in LTE radio network optimization

### Content

- Introduction

- Architecture
- Configurations and Technical Specifications
- Data Collection and Processing Flow in Nastar
- Operation Procedure for Data Collection in Nastar
- Network Optimization Procedure with Nastar
- Routine Operation on Nastar Client
- Nastar LTE Analysis Tasks
- Coverage Analysis
- VIP Analysis
- Complaint Analysis Support
- Terminal Analysis
- Cell Performance Analysis
- Network Geographic Observation

### Training Methods

Lectures, Demo

### Duration

1 working day

### Class Size

Min 6, max 12



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## 1.4.19 ONO63 iManager Nastar V600R014 System Administrator (ATAE)



### Objectives

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

- Describe topology management function and perform topology management.
- Describe the security management of Nastar system.
- Perform Nastar system user administration.
- Collect and browse logs from Nastar.

### Target Audience

Nastar System Administrator

### Prerequisites

- Having basic knowledge in telecommunication and Huawei Equipment

### Content

- Introduction
- Architecture
- Configurations and Technical Specifications

- Managing Nastar Users
- Managing Nastar Logs
- Monitoring the Nastar System
- Managing Nastar Processes and Services
- Managing the Nastar System Database
- Managing Files and Disks of the Nastar Server
- Backing Up and Restoring Nastar Dynamic data
- Nastar Security Introduction
- Operations about Nastar Security Management

### Training Methods

Lectures

### Duration

1 working day

### Class Size

Min 6, max 12

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## 1.4.20 ONO64 iManager Nastar V600R015 WCDMA Performance Analysis System Application



### Objectives

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

- Describe the structure and the data collection procedure of iManager Nastar
- Describe the network optimization procedure with Nastar
- Perform routine operations with Nastar client
- Perform different UMTS analysis tasks such as Coverage Analysis, Uplink Interference Analysis, Intra-frequency Neighboring Cell Analysis, Pilot Pollution Analysis and etc

### Target Audience

WCDMA Radio Network Optimization Engineers

### Prerequisites

- Having basic knowledge in WCDMA radio network optimization

### Content

- Introduction
- Architecture
- Configurations and Technical Specifications
- Data Collection and Processing Flow in Nastar
- Operation Procedure for Data Collection in Nastar
- Network Optimization Procedure with Nastar
- Routine Operation on Nastar Client
- Nastar UMTS Analysis Tasks
- Coverage Analysis
- Uplink Interference Analysis
- Intra-frequency Neighboring Cell Analysis
- UMTS/GSM Neighboring Cell Analysis
- Pilot Pollution Analysis
- VIP Analysis
- Complaint Analysis
- Cell Performance Analysis

### Training Methods

Lectures, Demo, Hands-on Exercise

### Duration

2 working days

### Class Size

Min 6, max 12

---

## 1.4.21 ONO65 iManager Nastar V600R015 LTE Performance Analysis System Application



### Objectives

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

- Describe the structure and the data collection procedure of iManager Nastar
- Describe the network optimization procedure with Nastar
- Perform routine operations with Nastar client
- Perform different LTE analysis tasks such as Coverage Analysis, VIP Analysis, Complaint Analysis Support, Terminal Analysis, Cell Performance Analysis, Network Geographic Observation etc.

### Target Audience

LTE Radio Network Optimization Engineers

### Prerequisites

- Having basic knowledge in LTE radio network optimization

### Content

- Introduction
- Architecture
- Configurations and Technical Specifications
- Data Collection and Processing Flow in Nastar
- Operation Procedure for Data Collection in Nastar
- Network Optimization Procedure with Nastar
- Routine Operation on Nastar Client
- Nastar LTE Analysis Tasks
- Coverage Analysis
- VIP Analysis
- Complaint Analysis Support
- Terminal Analysis
- Cell Performance Analysis
- Network Geographic Observation

### Training Methods

Lectures, Demo

### Duration

1 working day

### Class Size

Min 6, max 12

---

## 1.4.22 ONO66 iManager Nastar V600R015 System Administrator (ATAE)



### Objectives

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

- Describe topology management function and perform topology management.
- Describe the security management of Nastar system.
- Perform Nastar system user administration.
- Collect and browse logs from Nastar.

### Target Audience

Nastar System Administrator

### Prerequisites

- Having basic knowledge in telecommunication and Huawei Equipment

### Content

- Introduction
- Architecture
- Configurations and Technical Specifications
- Managing Nastar Users
- Managing Nastar Logs
- Monitoring the Nastar System
- Managing Nastar Processes and Services
- Managing the Nastar System Database
- Managing Files and Disks of the Nastar Server
- Backing Up and Restoring Nastar Dynamic data
- Nastar Security Introduction
- Operations about Nastar Security Management

### Training Methods

Lectures

### Duration

1 working day

### Class Size

Min 6, max 12

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## 1.5 Probe Training Course Descriptions

### 1.5.1 ONP11 GENEX Probe V200R003 GSM Operation



#### Objectives

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

- Describe the operation process of GENEX Probe
- Perform GSM drive test with GENEX Probe
- List basic test parameters in GSM drive test
- Analysis simple Drive Test problem with GENEX probe, such as over coverage, wrong connection of antenna, missing neighboring cells and handover failure.

#### Target Audience

GSM Radio Network Optimization Engineers

#### Prerequisites

- Familiar with Windows Operation System basic operation

- Having the basic Knowledge of GSM system

#### Content

- Huawei GENEX Series Tools
- GENEX Probe Introduction
- GENEX Probe Operation Process
- Test Parameters
- Additional Function and Operation
- GENEX Probe Cases Analysis

#### Training Methods

Lectures、 Demo

#### Duration

1 working day

#### Class Size

Min 6, max 12

---

## 1.5.2 ONP12 GENEX Probe V200R003 WCDMA Operation



### Objectives

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

- Describe the operation process of GENEX Probe
- Perform GSM drive test with GENEX Probe
- List basic test parameters in WCDMA drive test
- Analysis simple Drive Test problem with GENEX probe, such as over coverage, wrong connection of antenna, missing neighboring cells and handover failure.

### Target Audience

WCDMA Radio Network Optimization Engineers

### Prerequisites

- Familiar with Windows Operation System basic operation

- Having the basic Knowledge of WCDMA system

### Content

- Huawei GENEX Series Tools
- GENEX Probe Introduction
- GENEX Probe Operation Process
- Test Parameters
- Additional Function and Operation
- GENEX Probe Cases Analysis

### Training Methods

Lectures、Demo

### Duration

1 working day

### Class Size

Min 6, max 12

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### 1.5.3 ONP13 GENEX Probe V200R003 LTE Operation



#### Objectives

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

- Describe the operation process of GENEX Probe
- Perform GSM drive test with GENEX Probe
- List basic test parameters in LTE drive test
- Analysis simple Drive Test problem with GENEX probe, such as over coverage, wrong connection of antenna, missing neighboring cells and handover failure.

#### Target Audience

LTE Radio Network Optimization Engineers

#### Prerequisites

- Familiar with Windows Operation System basic operation

- Having the basic Knowledge of LTE system

#### Content

- Huawei GENEX Series Tools
- GENEX Probe Introduction
- GENEX Probe Operation Process
- Test Parameters
- Additional Function and Operation
- GENEX Probe Cases Analysis

#### Training Methods

Lectures、 Demo

#### Duration

1 working day

#### Class Size

Min 6, max 12

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## 1.5.4 ONP21 GENEX Probe V300R005 GSM Operation



### Objectives

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

- Describe the operation process of GENEX Probe
- Perform GSM drive test with GENEX Probe
- List basic test parameters in GSM drive test
- Analysis simple Drive Test problem with GENEX probe, such as over coverage, wrong connection of antenna, missing neighboring cells and handover failure.

### Target Audience

GSM Radio Network Optimization Engineers

### Prerequisites

- Familiar with Windows Operation System basic operation

- Having the basic Knowledge of GSM system

### Content

- Huawei GENEX Series Tools
- GENEX Probe Introduction
- GENEX Probe Operation Process
- Test Parameters
- Additional Function and Operation
- GENEX Probe Cases Analysis

### Training Methods

Lectures、 Demo

### Duration

1 working day

### Class Size

Min 6, max 12



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## 1.5.5 ONP22 GENEX Probe V300R005 WCDMA Operation



### Objectives

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

- Describe the operation process of GENEX Probe
- Perform GSM drive test with GENEX Probe
- List basic test parameters in WCDMA drive test
- Analysis simple Drive Test problem with GENEX probe, such as over coverage, wrong connection of antenna, missing neighboring cells and handover failure.

### Target Audience

WCDMA Radio Network Optimization Engineers

### Prerequisites

- Familiar with Windows Operation System basic operation

- Having the basic Knowledge of WCDMA system

### Content

- Huawei GENEX Series Tools
- GENEX Probe Introduction
- GENEX Probe Operation Process
- Test Parameters
- Additional Function and Operation
- GENEX Probe Cases Analysis

### Training Methods

Lectures、Demo

### Duration

1 working day

### Class Size

Min 6, max 12

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## 1.5.6 ONP23 GENEX Probe V300R005 LTE Operation



### Objectives

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

- Describe the operation process of GENEX Probe
- Perform GSM drive test with GENEX Probe
- List basic test parameters in LTE drive test
- Analysis simple Drive Test problem with GENEX probe, such as over coverage, wrong connection of antenna, missing neighboring cells and handover failure.

### Target Audience

LTE Radio Network Optimization Engineers

### Prerequisites

- Familiar with Windows Operation System basic operation

- Having the basic Knowledge of LTE system

### Content

- Huawei GENEX Series Tools
- GENEX Probe Introduction
- GENEX Probe Operation Process
- Test Parameters
- Additional Function and Operation
- GENEX Probe Cases Analysis

### Training Methods

Lectures、 Demo

### Duration

1 working day

### Class Size

Min 6, max 12

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## 1.5.7 ONP31 GENEX Probe V300R006 GSM Operation



### Objectives

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

- Describe the operation process of GENEX Probe
- Perform GSM drive test with GENEX Probe
- List basic test parameters in GSM drive test
- Analysis simple Drive Test problem with GENEX probe, such as over coverage, wrong connection of antenna, missing neighboring cells and handover failure.

### Target Audience

GSM Radio Network Optimization Engineers

### Prerequisites

- Familiar with Windows Operation System basic operation

- Having the basic Knowledge of GSM system

### Content

- Huawei GENEX Series Tools
- GENEX Probe Introduction
- GENEX Probe Operation Process
- Test Parameters
- Additional Function and Operation
- GENEX Probe Cases Analysis

### Training Methods

Lectures、 Demo

### Duration

1 working day

### Class Size

Min 6, max 12

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## 1.5.8 ONP61 GENEX Probe V300R006 WCDMA Operation



### Objectives

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

- Describe the operation process of GENEX Probe
- Perform WCDMA drive test with GENEX Probe
- List basic test parameters in WCDMA drive test
- Analysis simple Drive Test problem with GENEX probe, such as over coverage, wrong connection of antenna, missing neighboring cells and handover failure.

### Target Audience

WCDMA Radio Network Optimization Engineers

### Prerequisites

- Familiar with Windows Operation System basic operation

- Having the basic Knowledge of WCDMA system

### Content

- Huawei GENEX Series Tools
- GENEX Probe Introduction
- GENEX Probe Operation Process
- Test Parameters
- Additional Function and Operation
- GENEX Probe Cases Analysis

### Training Methods

Lectures、Demo

### Duration

1 working day

### Class Size

Min 6, max 12

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## 1.5.9 ONP62 GENEX Probe V300R006 LTE Operation



### Objectives

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

- Describe the operation process of GENEX Probe
- Perform LTE drive test with GENEX Probe
- List basic test parameters in LTE drive test
- Analysis simple Drive Test problem with GENEX probe, such as over coverage, wrong connection of antenna, missing neighboring cells and handover failure.

### Target Audience

LTE Radio Network Optimization Engineers

### Prerequisites

- Familiar with Windows Operation System basic operation

- Having the basic Knowledge of LTE system

### Content

- Huawei GENEX Series Tools
- GENEX Probe Introduction
- GENEX Probe Operation Process
- Test Parameters
- Additional Function and Operation
- GENEX Probe Cases Analysis

### Training Methods

Lectures、 Demo

### Duration

1 working day

### Class Size

Min 6, max 12

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## 1.5.10 ONP63 GENEX Probe V300R015 WCDMA Operation



### Objectives

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

- Describe the operation process of GENEX Probe
- Perform WCDMA drive test with GENEX Probe
- List basic test parameters in WCDMA drive test
- Analysis simple Drive Test problem with GENEX probe, such as over coverage, wrong connection of antenna, missing neighboring cells and handover failure.

### Target Audience

WCDMA Radio Network Optimization Engineers

### Prerequisites

- Familiar with Windows Operation System basic operation
- Having the basic Knowledge of WCDMA system

### Content

- Huawei GENEX Series Tools
- GENEX Probe Introduction
- GENEX Probe Operation Process
- Test Parameters
- Additional Function and Operation
- GENEX Probe Cases Analysis

### Training Methods

Lectures, Demo

### Duration

1 working day

### Class Size

Min 6, max 12

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## 1.5.11 ONP64 GENEX Probe V300R015 LTE Operation



### Objectives

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

- Describe the operation process of GENEX Probe
- Perform LTE drive test with GENEX Probe
- List basic test parameters in LTE drive test
- Analysis simple Drive Test problem with GENEX probe, such as over coverage, wrong connection of antenna, missing neighboring cells and handover failure.

### Target Audience

LTE Radio Network Optimization Engineers

### Prerequisites

- Familiar with Windows Operation System basic operation
- Having the basic Knowledge of LTE system

### Content

- Huawei GENEX Series Tools
- GENEX Probe Introduction
- GENEX Probe Operation Process
- Test Parameters
- Additional Function and Operation
- GENEX Probe Cases Analysis

### Training Methods

Lectures, Demo

### Duration

1 working day

### Class Size

Min 6, max 12

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## 1.6 Assistant Training Course Descriptions

### 1.6.1 ONA21 GENEX Assistant V300R005 GSM Operation



#### Objectives

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

- Describe the operation process of GENEX Assistant
- Analysis Drive Test problem with GENEX Assistant, such as
  - over coverage
  - wrong connection of antenna
  - missing neighboring cells
  - handover failure.

#### Target Audience

GSM Radio Network Optimization Engineers

#### Prerequisites

- Familiar with Windows Operation System basic

operation

- Having the basic Knowledge of GSM system

#### Content

- GENEX Assistant Introduction
- GENEX Assistant Operation Process
- GENEX Assistant Cases Analysis

#### Training Methods

Lectures、 Demo

#### Duration

1 working day

#### Class Size

Min 6, max 12



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## 1.6.2 ONA22 GENEX Assistant V300R005 WCDMA Operation



### Objectives

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

- Describe the operation process of GENEX Assistant
- Analysis Drive Test problem with GENEX Assistant, such as
  - over coverage
  - wrong connection of antenna
  - missing neighboring cells
  - handover failure.

### Target Audience

WCDMA Radio Network Optimization Engineers

### Prerequisites

- Familiar with Windows Operation System basic

operation

- Having the basic Knowledge of WCDMA system

### Content

- GENEX Assistant Introduction
- GENEX Assistant Operation Process
- GENEX Assistant Cases Analysis

### Training Methods

Lectures、 Demo

### Duration

1 working day

### Class Size

Min 6, max 12

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### 1.6.3 ONA23 GENEX Assistant V300R005 LTE Operation



#### Objectives

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

- Describe the operation process of GENEX Assistant
- Analysis Drive Test problem with GENEX Assistant, such as
  - over coverage
  - wrong connection of antenna
  - missing neighboring cells
  - handover failure.

#### Target Audience

LTE Radio Network Optimization Engineers

#### Prerequisites

- Familiar with Windows Operation System basic

operation

- Having the basic Knowledge of LTE system

#### Content

- GENEX Assistant Introduction
- GENEX Assistant Operation Process
- GENEX Assistant Cases Analysis

#### Training Methods

Lectures、Demo

#### Duration

1 working day

#### Class Size

Min 6, max 12

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## 1.6.4 ONA31 GENEX Assistant V300R006 GSM Operation



### Objectives

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

- Describe the operation process of GENEX Assistant
- Analysis Drive Test problem with GENEX Assistant, such as
  - over coverage
  - wrong connection of antenna
  - missing neighboring cells
  - handover failure.

### Target Audience

GSM Radio Network Optimization Engineers

### Prerequisites

- Familiar with Windows Operation System basic

operation

- Having the basic Knowledge of GSM system

### Content

- GENEX Assistant Introduction
- GENEX Assistant Operation Process
- GENEX Assistant Cases Analysis

### Training Methods

Lectures、Demo

### Duration

1 working day

### Class Size

Min 6, max 12

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## 1.6.5 ONA61 GENEX Assistant V300R006 WCDMA Operation



### Objectives

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

- Describe the operation process of GENEX Assistant
- Analysis Drive Test problem with GENEX Assistant, such as
  - over coverage
  - wrong connection of antenna
  - missing neighboring cells
  - handover failure.

### Target Audience

WCDMA Radio Network Optimization Engineers

### Prerequisites

- Familiar with Windows Operation System basic

operation

- Having the basic Knowledge of WCDMA system

### Content

- GENEX Assistant Introduction
- GENEX Assistant Operation Process
- GENEX Assistant Cases Analysis

### Training Methods

Lectures、 Demo

### Duration

1 working day

### Class Size

Min 6, max 12

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## 1.6.6 ONA62 GENEX Assistant V300R006 LTE Operation



### Objectives

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

- Describe the operation process of GENEX Assistant
- Analysis Drive Test problem with GENEX Assistant, such as
  - over coverage
  - wrong connection of antenna
  - missing neighboring cells
  - handover failure.

### Target Audience

LTE Radio Network Optimization Engineers

### Prerequisites

- Familiar with Windows Operation System basic

operation

- Having the basic Knowledge of LTE system

### Content

- GENEX Assistant Introduction
- GENEX Assistant Operation Process
- GENEX Assistant Cases Analysis

### Training Methods

Lectures、Demo

### Duration

1 working day

### Class Size

Min 6, max 12

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## 1.6.7 ONA63 GENEX Assistant V300R015 WCDMA Operation



### Objectives

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

- Describe the operation process of GENEX Assistant
- Analysis Drive Test problem with GENEX Assistant, such as
  - over coverage
  - wrong connection of antenna
  - missing neighboring cells
  - handover failure.

### Target Audience

WCDMA Radio Network Optimization Engineers

### Prerequisites

- Familiar with Windows Operation System basic operation
- Having the basic Knowledge of WCDMA system

### Content

- GENEX Assistant Introduction
- GENEX Assistant Operation Process
- GENEX Assistant Cases Analysis

### Training Methods

Lectures、 Demo

### Duration

1 working day

### Class Size

Min 6, max 12

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## 1.6.8 ONA64 GENEX Assistant V300R015 LTE Operation



### Objectives

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

- Describe the operation process of GENEX Assistant
- Analysis Drive Test problem with GENEX Assistant, such as
  - over coverage
  - wrong connection of antenna
  - missing neighboring cells
  - handover failure.

### Target Audience

LTE Radio Network Optimization Engineers

### Prerequisites

- Familiar with Windows Operation System basic operation
- Having the basic Knowledge of LTE system

### Content

- GENEX Assistant Introduction
- GENEX Assistant Operation Process
- GENEX Assistant Cases Analysis

### Training Methods

Lectures、 Demo

### Duration

1 working day

### Class Size

Min 6, max 12

