

Training Proposal for OSS Product Technical Training Project



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1 Training Solution

1.1 Background Introduction

Wireless OSS Training

1.2 Overview

1.3 U2000 Product Technical Training Path

M2000	
System Administration	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">iManager M2000 V2 System Administration Training (SUN) ILT 4.5D</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">iManager M2000 V2 System Administration Training (ATAE Cluster) ILT 3D</div>
Network Element Maintenance	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">iManager M2000 V200R013 to U2000 V200R014 Delta Training ILT 1D</div> <div style="border: 1px solid black; padding: 5px;">iManager U2000 V200R014 Client Operation & Maintenance Training ILT 2.5D</div>

1.4 OSS Product Technical Training Path

	PRS	Nastar	Probe	Assistant
Routine O&M	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">iManager PRS System Administrator Training (ATAE) ILT 1D</div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">iManager Nastar System Administrator Training (ATAE) ILT 1D</div>		
RNO	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">iManager PRS Client Application Training ILT 1D</div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">iManager Nastar WCDMA Performance Analysis System Application Training ILT 2D</div> <div style="border: 1px solid black; padding: 5px;">iManager Nastar LTE Performance Analysis System Application Training ILT 2D</div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">GENEX Probe WCDMA Operation Training ILT 1D</div> <div style="border: 1px solid black; padding: 5px;">GENEX Probe LTE Operation Training ILT 1D</div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">GENEX Assistant WCDMA Operation Training ILT 1D</div> <div style="border: 1px solid black; padding: 5px;">GENEX Assistant LTE Operation Training ILT 1D</div>

1.5 Required Training Programs

OSS Product Technical Training For this project, the whole training solution is designed into the following programs. List of Training Program(s) for OSS Product Technical Training Project:

Training Program	Program Level	Duration (workdays)	Training Location	Class Size
U2000				
iManager U2000V200R014 System Administration Training(Sun)	II	4.5		6 ~ 12
iManager U2000V200R014 System Administration Training(ATAE Cluster)	II	3		6 ~ 12
iManager U2000V200R014 Client Operation and Maintenance Training	II	2.5		6 ~ 12
iManager U2000V200R014 New Features Training	I	1		6 ~ 12
iManager M2000V200R013 System Administration Training(Sun)	II	4.5		6 ~ 12
iManager M2000V200R013 System Administration Training(ATAE Cluster)	II	3		6 ~ 12
iManager M2000V200R013 Client Operation and Maintenance Training	II	2.5		6 ~ 12
iManager M2000V200R013 New Features Training	I	1		6 ~ 12
PRS				
iManager PRS V100R006 Client Application Training	II	1		6 ~ 12
iManager PRS V100R007 Client Application Training	II	1		6 ~ 12
iManager PRS V100R008 Client Application Training	II	1		6 ~ 12
iManager PRS V100R009 Client Application Training	II	1		6 ~ 12
iManager PRS V100R006 System Administrator Training (HP)	II	1		6 ~ 12
iManager PRS V100R007 System Administrator Training (HP)	II	1		6 ~ 12
iManager PRS V100R008 System Administrator Training (HP)	II	1		6 ~ 12
iManager PRS V100R008 System Administrator Training (ATAE)	II	1		6 ~ 12

iManager PRS V100R009 System Administrator Training (HP)	II	1		6 ~ 12
iManager PRS V100R009 System Administrator Training (ATAE)	II	1		6 ~ 12
iManager PRS V100R014 Client Application Training	II	1		6 ~ 12
iManager PRS V100R014 System Administrator Training (ATAE)	II	1		6 ~ 12
iManager PRS V100R015 Client Application Training	II	1		6 ~ 12
iManager PRS V100R015 System Administrator Training (ATAE)	II	1		6 ~ 12
Nastar				
iManager Nastar V600R008 GSM Performance Analysis System Application Training	III	2		6 ~ 12
iManager Nastar V600R008 WCDMA Performance Analysis System Application Training	III	2		6 ~ 12
iManager Nastar V600R009 GSM Performance Analysis System Application Training	III	2		6 ~ 12
iManager Nastar V600R009 WCDMA Performance Analysis System Application Training	III	2		6 ~ 12
iManager Nastar V600R010 GSM Performance Analysis System Application Training	III	2		6 ~ 12
iManager Nastar V600R010 WCDMA Performance Analysis System Application Training	III	2		6 ~ 12
iManager Nastar V600R010 LTE Performance Analysis System Application Training	III	1		6 ~ 12
GENEX Nastar V600R011 GSM Performance Analysis System Application Training	III	2		6 ~ 12
GENEX Nastar V600R011 WCDMA Performance Analysis System Application Training	III	2		6 ~ 12
GENEX Nastar V600R011 LTE Performance Analysis System Application Training	III	1		6 ~ 12
GENEX Nastar V600R014 WCDMA Performance Analysis System Application Training	III	2		6 ~ 12
GENEX Nastar V600R014 LTE Performance Analysis	III	1		6 ~ 12

System Application Training				
iManager Nastar V600R008 System Administrator Training (HP)	II	1		6 ~ 12
iManager Nastar V600R009 System Administrator Training (HP)	II	1		6 ~ 12
iManager Nastar V600R010 System Administrator Training (HP)	II	1		6 ~ 12
iManager Nastar V600R010 System Administrator Training (ATAE)	II	1		6 ~ 12
iManager Nastar V600R011 System Administrator Training (HP)	II	1		6 ~ 12
iManager Nastar V600R011 System Administrator Training (ATAE)	II	1		6 ~ 12
iManager Nastar V600R014 System Administrator Training (ATAE)	II	1		6 ~ 12
GENEX Nastar V600R015 WCDMA Performance Analysis System Application Training	III	2		6 ~ 12
GENEX Nastar V600R015 LTE Performance Analysis System Application Training	III	1		6 ~ 12
iManager Nastar V600R015 System Administrator Training (ATAE)	II	1		6 ~ 12
Probe				
GENEX Probe V200R003 GSM Operation Training				
GENEX Probe V200R003 WCDMA Operation Training	II	1		6 ~ 12
GENEX Probe V200R003 LTE Operation Training	II	1		6 ~ 12
GENEX Probe V300R005 GSM Operation Training	II	1		6 ~ 12
GENEX Probe V300R005 WCDMA Operation Training	II	1		6 ~ 12
GENEX Probe V300R005 LTE Operation Training	II	1		6 ~ 12
GENEX Probe V300R006 WCDMA Operation Training	II	1		6 ~ 12
GENEX Probe V300R006 LTE Operation Training	II	1		6 ~ 12
GENEX Probe V300R015 WCDMA Operation Training	II	1		6 ~ 12
GENEX Probe V300R015 LTE Operation Training	II	1		6 ~ 12

II

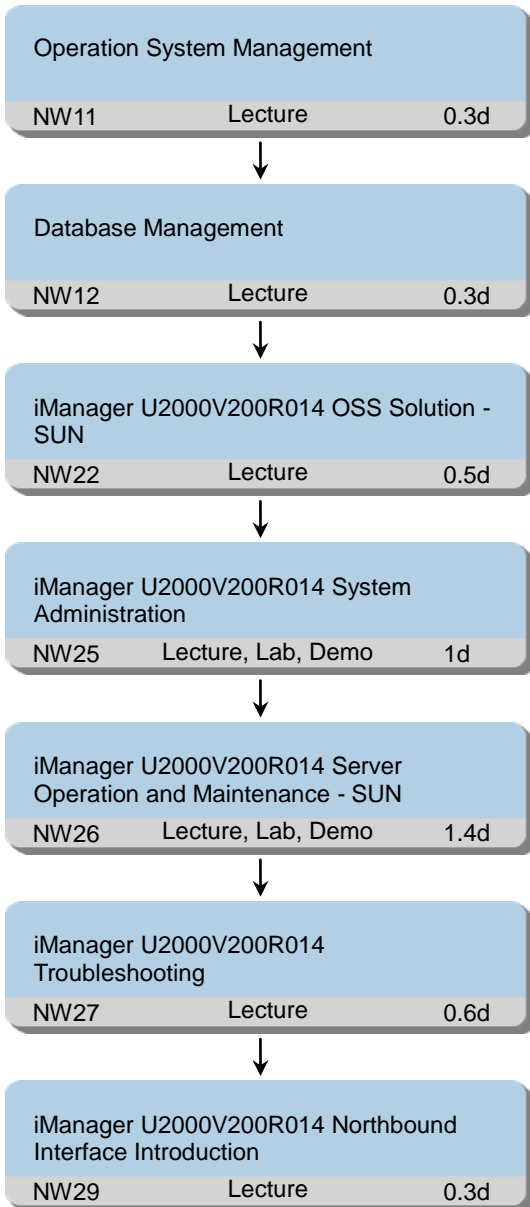
Assistant					
GENEX Assistant V300R005 GSM Operation Training					II
GENEX Assistant V300R005 WCDMA Operation Training	II	1		6 ~ 12	
GENEX Assistant V300R005 LTE Operation Training	II	1		6 ~ 12	
GENEX Assistant V300R006 GSM Operation Training	II	1		6 ~ 12	
GENEX Assistant V300R006 WCDMA Operation Training	II	1		6 ~ 12	
GENEX Assistant V300R006 LTE Operation Training	II	1		6 ~ 12	
GENEX Assistant V300R015 WCDMA Operation Training	II	1		6 ~ 12	
GENEX Assistant V300R015 LTE Operation Training	II	1		6 ~ 12	

Level Description: I : Basic Course II : Intermediate Course III: Advanced Course IV: Expert Course

1.6 U2000

1.6.1 iManager U2000V200R014 System Administration Training(Sun)

Training Path



Target Audience

Personnel who works on U2000 system administration
Personnel who works on U2000 server administration

Prerequisites

- Having basic knowledge in telecommunication and mobile communication

Objectives

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

- Describe the basic concept of U2000
- Master the structure of U2000 system
- Describe the networking of U2000 system
- 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
- Describe the commands in UNIX system.
- Grasp the UNIX hard disk management.
- Grasp the UNIX network configuration management.
- Grasp the UNIX backup and restoration.
- Initialize and drop devices in database.
- Define the database parameters.
- Perform database security administration.
- Perform database backup and restore.
- Describe topology management function and perform topology management.
- Perform U2000V2 system user administration.
- Collect and browse logs from U2000.
- 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.
- 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.

Training Content

NW11 Operation System Management

- Operation System Management
 - 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

NW12 Database Management

- Database Management
 - 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

NW22 iManager U2000V200R014 OSS Solution - SUN

- iManager U2000V200R014 System Structure and Function - SUN
 - Introduction to U2000 System
 - U2000 Network Solution
 - U2000 Software Architecture
 - U2000 Hardware Components
 - U2000 System Networking

NW25 iManager U2000V200R014 System Administration

- iManager U2000V200R014 Topology Management
 - 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
- iManager U2000V200R014 Security Management
 - The meaning of O
 - M user, NE user, category A/B/C NE
 - Set security policy parameters
 - Manage O
 - M user and NE user
 - Monitor the user status
- iManager U2000V200R014 Log Management
 - The log types in U2000
 - Collect and browse logs from U2000
 - The function supported by Health Check Tool
 - Perform Health Check Tool operation

NW26 iManager U2000V200R014 Server Operation and Maintenance - SUN

- iManager U2000V200R014 Process Overview and Maintenance
 - Introduction to U2000 processes
 - The functions of U2000 processes
 - Management U2000 processes
- iManager U2000V200R014 Server Operation and Maintenance
 - Monitor the real-time situation of CPU、memory、disk and database of U2000 server
 - Check, start and stop U2000 processes
 - Manage the file system and hard disk
- iManager U2000V200R014 Backup and Restore
 - Perform U2000V2 database data backup and restoration

-
- Perform U2000V2 software structure backup and restoration

NW27 iManager U2000V200R014 Troubleshooting

- iManager U2000V200R014 Troubleshooting
 - The strictly prohibited operations
 - Perform basic troubleshooting to U2000 application, database and operating system

NW29 iManager U2000V200R014 Northbound Interface Introduction

- iManager U2000V200R014 Northbound Interface Introduction
 - 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

Duration

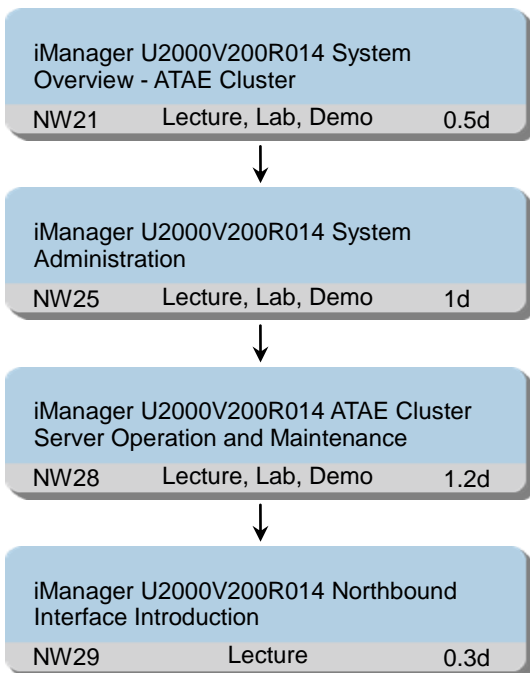
4.5 working days

Class Size

Min 6, Max 12

1.6.2 iManager U2000V200R014 System Administration Training(ATAE Cluster)

Training Path



Target Audience

- Personnel who require a general knowledge of iManager U2000V2 ATAE Cluster system
- Personnel who works on U2000 system administration
- Personnel who works on U2000 server administration

Prerequisites

- Having basic knowledge in telecommunication and mobile communication

Objectives

On completion of this program, 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
- 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
- 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

-
- Describe topology management function and perform topology management.
 - Perform U2000V2 system user administration.
 - Collect and browse logs from U2000.

Training Content

NW21 iManager U2000V200R014 System Overview - ATAE Cluster

- iManager ATAE Cluster V200R002 Principle and Structure
 - 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

NW25 iManager U2000V200R014 System Administration

- iManager U2000V200R014 Topology Management
 - 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
- iManager U2000V200R014 Security Management
 - The meaning of O
 - M user, NE user, category A/B/C NE
 - Set security policy parameters
 - Manage O
 - M user and NE user
 - Monitor the user status
- iManager U2000V200R014 Log Management
 - The log types in U2000
 - Collect and browse logs from U2000
 - The function supported by Health Check Tool
 - Perform Health Check Tool operation

NW28 iManager U2000V200R014 ATAE Cluster Server Operation and Maintenance

- iManager ATAE Cluster V200R002 Operation and Maintenance
 - Configure, monitor, maintenance and collect information of hardware
 - Switch board and storage
 - Install and upgrade U2000 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

-
- iManager ATAE Cluster V200R002 Backup and restore
 - 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

NW29 iManager U2000V200R014 Northbound Interface Introduction

- iManager U2000V200R014 Northbound Interface Introduction
 - 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

Duration

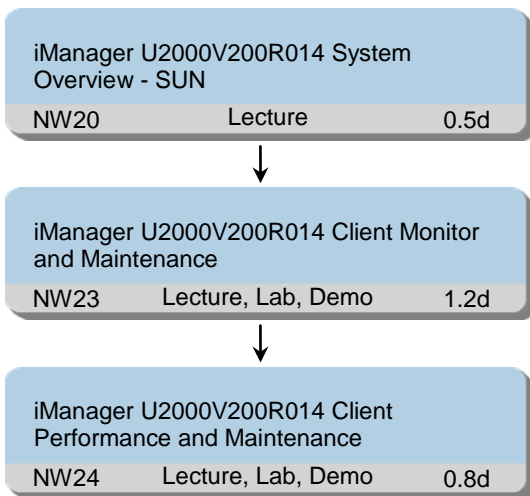
3 working days

Class Size

Min 6, Max 12

1.6.3 iManager U2000V200R014 Client Operation and Maintenance Training

Training Path



Target Audience

U2000V2 Alarm Operation and Maintenance Technician and Engineer
U2000V2 Performance Operation and Maintenance Technician and Engineer
Personnel who require a general knowledge of iManager U2000V2 system

Prerequisites

- Having basic knowledge in telecommunication and mobile communication

Objectives

On completion of this program, 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.
- 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.

-
- 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 U2000 system, including system capacity, bandwidth, storage capacity, processing capability, and client number.

Training Content

NW20 iManager U2000V200R014 System Overview - SUN

- iManager U2000V200R014 System Overview-SUN
 - 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 U2000 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

NW23 iManager U2000V200R014 Client Monitor and Maintenance

- iManager U2000V200R014 Configuration Management
 - Query the NE configuration data from U2000
 - Configure data to NE from U2000
- iManager U2000V200R014 Alarm Management
 - The alarm categories and levels
 - The alarm processing ability supported by the U2000 server
 - Browse the current alarms
 - Query the specified alarms by conditions set manually
 - Redefine the alarm level in U2000 and in NE
 - Modify the alarm name in U2000 and NE
 - Set the shield condition in U2000 and NE

NW24 iManager U2000V200R014 Client Performance and Maintenance

- iManager U2000V200R014 Performance Management
 - 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

Duration

2.5 working days

Class Size

Min 6, Max 12

1.6.4 iManager U2000V200R014 New Features Training

Training Path

iManager U2000V200R014 Delta(GUI)		
NW40	Lecture, Lab, Demo	1d

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 in telecommunication and mobile communication

Objectives

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

- The new function of U2000V2R14
- The changes of functions of U2000 GUI between U2000V2R12 and R13 version

Training Content

NW40 iManager U2000V200R014 Delta(GUI)

- iManager U2000V200 R013-R014 Delta (GUI)
 - The new function of U2000V2R14
 - The changes of functions of U2000 GUI between U2000V2R14 and R13 version

Duration

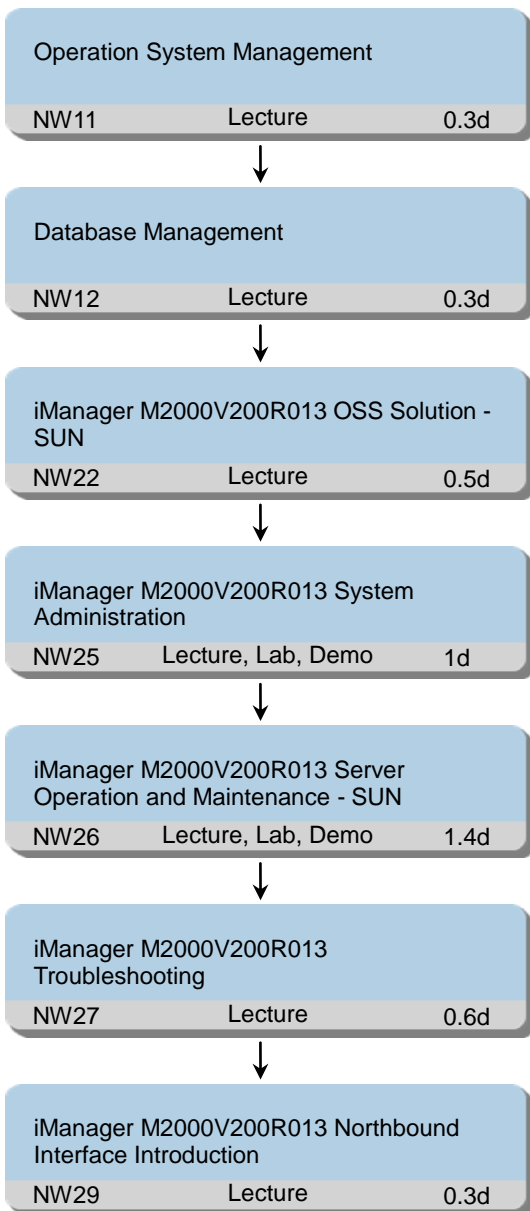
1 working day

Class Size

Min 6, Max 12

1.6.5 iManager M2000V200R013 System Administration Training(Sun)

Training Path



Target Audience

- Personnel who works on M2000 system administration
- Personnel who works on M2000 server administration

Prerequisites

- Having basic knowledge in telecommunication and mobile communication

Objectives

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

-
- Describe the basic concept of U2000
 - Master the structure of U2000 system
 - Describe the networking of M2000 system
 - 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
 - Describe the commands in UNIX system.
 - Grasp the UNIX hard disk management.
 - Grasp the UNIX network configuration management.
 - Grasp the UNIX backup and restoration.
 - Initialize and drop devices in database.
 - Define the database parameters.
 - Perform database security administration.
 - Perform database backup and restore.
 - Describe topology management function and perform topology management.
 - Perform M2000V2 system user administration.
 - Collect and browse logs from M2000.
 - 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.
 - 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.

Training Content

NW11 Operation System Management

- Operation System Management
 - 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

NW12 Database Management

- Database Management
 - 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

NW22 iManager M2000V200R013 OSS Solution - SUN

- iManager M2000V200R013 System Structure and Function - SUN
 - Introduction to M2000 System
 - M2000 Network Solution
 - M2000 Software Architecture
 - M2000 Hardware Components
 - M2000 System Networking

NW25 iManager M2000V200R013 System Administration

- iManager M2000V200R013 Topology Management
 - 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
- iManager M2000V200R013 Security Management
 - The meaning of O
 - M user, NE user, category A/B/C NE
 - Set security policy parameters
 - Manage O
 - M user and NE user
 - Monitor the user status
- iManager M2000V200R013 Log Management
 - The log types in M2000
 - Collect and browse logs from M2000
 - The function supported by Health Check Tool
 - Perform Health Check Tool operation

NW26 iManager M2000V200R013 Server Operation and Maintenance - SUN

- iManager M2000V200R013 Process Overview and Maintenance
 - Introduction to M2000 processes
 - The functions of M2000 processes
 - Management M2000 processes
- iManager M2000V200R013 Server Operation and Maintenance
 - 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
- iManager M2000V200R013 Backup and Restore
 - Perform M2000V2 database data backup and restoration
 - Perform M2000V2 software structure backup and restoration

NW27 iManager M2000V200R013 Troubleshooting

-
- iManager M2000V200R013 Troubleshooting
 - The strictly prohibited operations
 - Perform basic troubleshooting to M2000 application, database and operating system

NW29 iManager M2000V200R013 Northbound Interface Introduction

- iManager M2000V200R013 Northbound Interface Introduction
 - 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

Duration

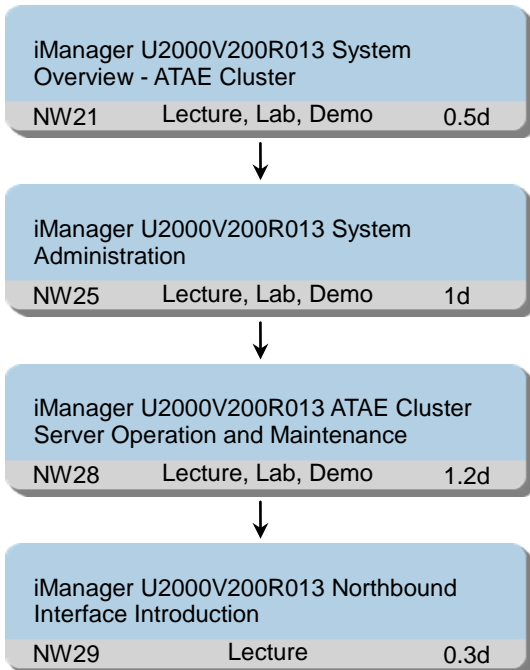
4.5 working days

Class Size

Min 6, Max 12

1.6.6 iManager M2000V200R013 System Administration Training(ATAE Cluster)

Training Path



Target Audience

Personnel who require a general knowledge of iManager M2000V2 ATAE Cluster system
Personnel who works on M2000 system administration

Personnel who works on M2000 server administration
Personnel who works on M2000 system administration

Prerequisites

- Having basic knowledge in telecommunication and mobile communication

Objectives

On completion of this program, 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
- 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
- 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
- Describe topology management function and perform topology management.
- Perform M2000V2 system user administration.
- Collect and browse logs from M2000.

Training Content

NW21 iManager M2000V200R013 System Overview - ATAE Cluster

- iManager ATAE Cluster V100R002 Principle and Structure
 - 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

NW25 iManager M2000V200R013 System Administration

- iManager M2000V200R013 Topology Management
 - 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
- iManager M2000V200R013 Security Management
 - The meaning of O
 - M user, NE user, category A/B/C NE
 - Set security policy parameters
 - Manage O
 - M user and NE user
 - Monitor the user status
- iManager M2000V200R013 Log Management
 - The log types in M2000
 - Collect and browse logs from M2000
 - The function supported by Health Check Tool
 - Perform Health Check Tool operation

NW28 iManager M2000V200R013 ATAE Cluster Server Operation and Maintenance

- iManager ATAE Cluster V100R002 Operation and Maintenance
 - 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
 - iManager ATAE Cluster V100R002 Backup and restore
 - 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

NW29 iManager M2000V200R013 Northbound Interface Introduction

- iManager M2000V200R013 Northbound Interface Introduction
 - 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

Duration

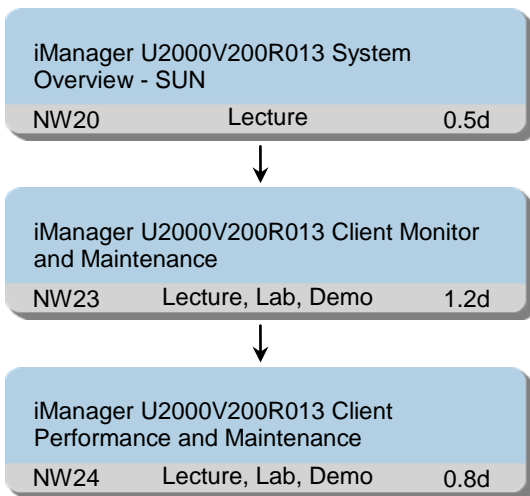
3 working days

Class Size

Min 6, Max 12

1.6.7 iManager M2000V200R013 Client Operation and Maintenance Training

Training Path



Target Audience

M2000V2 Alarm Operation and Maintenance Technician and Engineer
M2000V2 Performance Operation and Maintenance Technician and Engineer
Personnel who require a general knowledge of iManager M2000V2 system

Prerequisites

- Having basic knowledge in telecommunication and mobile communication

Objectives

On completion of this program, 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.
- 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.

-
- 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.

Training Content

NW20 iManager M2000V200R013 System Overview - SUN

- iManager M2000V200R013 System Overview-SUN
 - 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

NW23 iManager M2000V200R013 Client Monitor and Maintenance

- iManager M2000V200R013 Configuration Management
 - Query the NE configuration data from M2000
 - Configure data to NE from M2000
- iManager M2000V200R013 Alarm Management
 - 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

NW24 iManager M2000V200R013 Client Performance and Maintenance

- iManager M2000V200R013 Performance Management
 - 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

Duration

2.5 working days

Class Size

Min 6, Max 12

1.6.8 iManager M2000V200R013 New Features Training

Training Path

iManager U2000V200R013 Delta(GUI)		
NW40	Lecture, Lab, Demo	1d

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 in telecommunication and mobile communication

Objectives

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

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

Training Content

NW40 iManager M2000V200R013 Delta(GUI)

- iManager M2000 V200 R012-R013 Delta (GUI)
 - The new function of M2000V2R13
 - The changes of functions of M2000 GUI between M2000V2R12 and R13 version

Duration

1 working day

Class Size

Min 6, Max 12

1.7 PRS

1.7.1 iManager PRS V100R006 Client Application Training

Training Path

iManager PRS V100R006 Client Application		
ONR11	Lecture, Lab, Demo	1d

Target Audience

Radio Network Optimization Engineers

Prerequisites

- Having basic knowledge in wireless network performance management

Objectives

On completion of this program, 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

Training Content

ONR11 iManager PRS V100R006 Client Application

- iManager PRS V100R006 System Overview
 - PRS Network Topology
 - Features of PRS
 - Architecture of PRS
 - Typical Configurations of PRS
 - Technical Specifications of PRS
- iManager PRS V100R006 Client Operation and Maintenance
 - 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

Duration

1 working day

Class Size

Min 6, Max 12

1.7.2 iManager PRS V100R007 Client Application Training

Training Path

iManager PRS V100R007 Client Application		
ONR21	Lecture, Lab, Demo	1d

Target Audience

Radio Network Optimization Engineers

Prerequisites

- Having basic knowledge in wireless network performance management

Objectives

On completion of this program, 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

Training Content

ONR21 iManager PRS V100R007 Client Application

- iManager PRS V100R007 System Overview
 - PRS Network Topology
 - Features of PRS
 - Architecture of PRS
 - Typical Configurations of PRS
 - Technical Specifications of PRS
- iManager PRS V100R007 Client Operation and Maintenance
 - 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

Duration

1 working day

Class Size

Min 6, Max 12

1.7.3 iManager PRS V100R008 Client Application Training

Training Path

iManager PRS V100R008 Client Application		
ONR31	Lecture, Lab, Demo	1d

Target Audience

Radio Network Optimization Engineers

Prerequisites

- Having basic knowledge in wireless network performance management

Objectives

On completion of this program, 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

Training Content

ONR31 iManager PRS V100R008 Client Application

- iManager PRS V100R008 System Overview
 - PRS Network Topology
 - Features of PRS
 - Architecture of PRS
 - Typical Configurations of PRS
 - Technical Specifications of PRS
- iManager PRS V100R008 Client Operation and Maintenance
 - 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

Duration

1 working day

Class Size

Min 6, Max 12

1.7.4 iManager PRS V100R009 Client Application Training

Training Path

iManager PRS V100R009 Client Application		
ONR41	Lecture, Lab, Demo	1d

Target Audience

Radio Network Optimization Engineers

Prerequisites

- Having basic knowledge in wireless network performance management

Objectives

On completion of this program, 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

Training Content

ONR41 iManager PRS V100R009 Client Application

- iManager PRS V100R009 System Overview
 - PRS Network Topology
 - Features of PRS
 - Architecture of PRS
 - Application Scenario of PRS
 - Typical Configurations of PRS
 - Technical Specifications of PRS
- iManager PRS V100R009 Client Operation and Maintenance
 - 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

Duration

1 working day

Class Size

Min 6, Max 12

1.7.5 iManager PRS V100R006 System Administrator Training (HP)

Training Path

iManager PRS V100R006 System Administrator (HP)		
ONR12	Lecture	1d

Target Audience

PRS System Administrator

Prerequisites

- Be familiar with Linux operating system
- Be familiar with Oracle database system

Objectives

On completion of this program, 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 Content

ONR12 iManager PRS V100R006 System Administrator (HP)

- iManager PRS V100R006 System Overview
 - PRS Network Topology
 - Features of PRS
 - Architecture of PRS
 - Typical Configurations of PRS
 - Technical Specifications of PRS
- iManager PRS V100R006 Administrator Operation and Maintenance(HP)
 - 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
- iManager PRS V100R006 Security Management
 - PRS Security Management Overview
 - PRS Security Management Operation
- iManager PRS V100R006 Data Collection and Processing Flow
 - Data Collection

-
- Processing Flow in PRS
 - Operation Procedure for Data Collection in PRS
 - iManager PRS V100R006 administration Tool
 - administration Tool Overview
 - Counter Setting
 - System Setting

Duration

1 working day

Class Size

Min 6, Max 12

1.7.6 iManager PRS V100R007 System Administrator Training (HP)

Training Path

iManager PRS V100R007 System Administrator (HP)		
ONR22	Lecture	1d

Target Audience

PRS System Administrator

Prerequisites

- Be familiar with Linux operating system
- Be familiar with Oracle database system

Objectives

On completion of this program, 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 Content

ONR22 iManager PRS V100R007 System Administrator (HP)

- iManager PRS V100R007 System Overview
 - PRS Network Topology
 - Features of PRS
 - Architecture of PRS
 - Typical Configurations of PRS
 - Technical Specifications of PRS
- iManager PRS V100R007 Administrator Operation and Maintenance(HP)
 - 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
- iManager PRS V100R007 Security Management
 - PRS Security Management Overview
 - PRS Security Management Operation
- iManager PRS V100R007 Data Collection and Processing Flow
 - Data Collection

-
- Processing Flow in PRS
 - Operation Procedure for Data Collection in PRS
 - iManager PRS V100R007 administration Tool
 - administration Tool Overview
 - Counter Setting
 - System Setting

Duration

1 working day

Class Size

Min 6, Max 12

1.7.7 iManager PRS V100R008 System Administrator Training (HP)

Training Path

iManager PRS V100R008 System Administrator (HP)		
ONR32	Lecture	1d

Target Audience

PRS System Administrator

Prerequisites

- Be familiar with Linux operating system
- Be familiar with Oracle database system

Objectives

On completion of this program, 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 Content

ONR32 iManager PRS V100R008 System Administrator (HP)

- iManager PRS V100R008 System Overview
 - PRS Network Topology
 - Features of PRS
 - Architecture of PRS
 - Typical Configurations of PRS
 - Technical Specifications of PRS
- iManager PRS V100R008 Administrator Operation and Maintenance(HP)
 - 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
- iManager PRS V100R008 Security Management
 - PRS Security Management Overview
 - PRS Security Management Operation
- iManager PRS V100R008 Data Collection and Processing Flow
 - Data Collection

-
- Processing Flow in PRS
 - Operation Procedure for Data Collection in PRS
 - iManager PRS V100R008 administration Tool
 - administration Tool Overview
 - Counter Setting
 - System Setting

Duration

1 working day

Class Size

Min 6, Max 12

1.7.8 iManager PRS V100R008 System Administrator Training (ATAE)

Training Path

iManager PRS V100R008 System Administrator (ATAE)		
ONR33	Lecture	1d

Target Audience

PRS System Administrator

Prerequisites

- Be familiar with Linux operating system
- Be familiar with Oracle database system

Objectives

On completion of this program, 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 Content

ONR33 iManager PRS V100R008 System Administrator (ATAE)

- iManager PRS V100R008 System Overview
 - PRS Network Topology
 - Features of PRS
 - Architecture of PRS
 - Typical Configurations of PRS
 - Technical Specifications of PRS
- iManager PRS V100R008 Security Management
 - PRS Security Management Overview
 - PRS Security Management Operation
- iManager PRS V100R008 Data Collection and Processing Flow
 - Data Collection
 - Processing Flow in PRS
 - Operation Procedure for Data Collection in PRS
- iManager PRS V100R008 administration Tool
 - administration Tool Overview
 - Counter Setting
 - System Setting
- iManager PRS V100R008 Administrator Operation and Maintenance(ATAE)
 - 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

Duration

1 working day

Class Size

Min 6, Max 12

1.7.9 iManager PRS V100R009 System Administrator Training (HP)

Training Path

iManager PRS V100R009 System Administrator (HP)		
ONR42	Lecture	1d

Target Audience

PRS System Administrator

Prerequisites

- Be familiar with Linux operating system
- Be familiar with Oracle database system

Objectives

On completion of this program, 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 Content

ONR42 iManager PRS V100R009 System Administrator (HP)

- iManager PRS V100R009 System Overview
 - PRS Network Topology
 - Features of PRS
 - Architecture of PRS
 - Application Scenario of PRS
 - Typical Configurations of PRS
 - Technical Specifications of PRS
- iManager PRS V100R009 Administrator Operation and Maintenance(HP)
 - 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
- iManager PRS V100R009 Security Management
 - PRS Security Management Overview
 - PRS Security Management Operation
- iManager PRS V100R009 Data Collection and Processing Flow

-
- Data Collection
 - Processing Flow in PRS
 - Operation Procedure for Data Collection in PRS
 - iManager PRS V100R009 administration Tool
 - administration Tool Overview
 - Counter Setting
 - System Setting

Duration

1 working day

Class Size

Min 6, Max 12

1.7.10 iManager PRS V100R009 System Administrator Training (ATAE)

Training Path

iManager PRS V100R009 System Administrator (ATAE)		
ONR43	Lecture	1d

Target Audience

PRS System Administrator

Prerequisites

- Be familiar with Linux operating system
- Be familiar with Oracle database system

Objectives

On completion of this program, 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 Content

ONR43 iManager PRS V100R009 System Administrator (ATAE)

- iManager PRS V100R009 System Overview
 - PRS Network Topology
 - Features of PRS
 - Architecture of PRS
 - Application Scenario of PRS
 - Typical Configurations of PRS
 - Technical Specifications of PRS
- iManager PRS V100R009 Security Management
 - PRS Security Management Overview
 - PRS Security Management Operation
- iManager PRS V100R009 Data Collection and Processing Flow
 - Data Collection
 - Processing Flow in PRS
 - Operation Procedure for Data Collection in PRS
- iManager PRS V100R009 administration Tool
 - administration Tool Overview
 - Counter Setting
 - System Setting
- iManager PRS V100R009 Administrator Operation and Maintenance(ATAE)

-
- 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

Duration

1 working day

Class Size

Min 6, Max 12

1.7.11 iManager PRS V100R014 Client Application Training

Training Path

iManager PRS V100R014 Client Application		
ONR51	Lecture, Lab, Demo	1d

Target Audience

Radio Network Optimization Engineers

Prerequisites

- Having basic knowledge in wireless network performance management

Objectives

On completion of this program, 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

Training Content

ONR51 iManager PRS V100R014 Client Application

- iManager PRS V100R014 System Overview
 - PRS Network Topology
 - Features of PRS
 - Architecture of PRS
 - Application Scenario of PRS
 - Typical Configurations of PRS
 - Technical Specifications of PRS
- iManager PRS V100R014 Client Operation and Maintenance
 - 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

Duration

1 working day

Class Size

Min 6, Max 12

1.7.12 iManager PRS V100R014 System Administrator Training (ATAE)

Training Path

iManager PRS V100R014 System Administrator (ATAE)		
ONR52	Lecture	1d

Target Audience

PRS System Administrator

Prerequisites

- Be familiar with Linux operating system
- Be familiar with Oracle database system

Objectives

On completion of this program, 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 Content

ONR52 iManager PRS V100R014 System Administrator (ATAE)

- iManager PRS V100R014 System Overview
 - PRS Network Topology
 - Features of PRS
 - Architecture of PRS
 - Application Scenario of PRS
 - Typical Configurations of PRS
 - Technical Specifications of PRS
- iManager PRS V100R014 Security Management
 - PRS Security Management Overview
 - PRS Security Management Operation
- iManager PRS V100R014 Data Collection and Processing Flow
 - Data Collection
 - Processing Flow in PRS
 - Operation Procedure for Data Collection in PRS
- iManager PRS V100R014 Administrator Operation and Maintenance(ATAE)
 - 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

Duration

1 working day

Class Size

Min 6, Max 12

1.7.13 iManager PRS V100R015 Client Application Training

Training Path

iManager PRS V100R015 Client Application		
ONR53	Lecture, Lab, Demo	1d

Target Audience

Radio Network Optimization Engineers

Prerequisites

- Having basic knowledge in wireless network performance management

Objectives

On completion of this program, 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

Training Content

ONR53 iManager PRS V100R015 Client Application

- iManager PRS V100R015 System Overview
 - PRS Network Topology
 - Features of PRS
 - Architecture of PRS
 - Application Scenario of PRS
 - Typical Configurations of PRS
 - Technical Specifications of PRS
- iManager PRS V100R015 Client Operation and Maintenance
 - 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

Duration

1 working day

Class Size

Min 6, Max 12

1.7.14 iManager PRS V100R015 System Administrator Training (ATAE)

Training Path

iManager PRS V100R015 System Administrator (ATAE)		
ONR54	Lecture	1d

Target Audience

PRS System Administrator

Prerequisites

- Be familiar with Linux operating system
- Be familiar with Oracle database system

Objectives

On completion of this program, 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 Content

ONR54 iManager PRS V100R015 System Administrator (ATAE)

- iManager PRS V100R015 System Overview
 - PRS Network Topology
 - Features of PRS
 - Architecture of PRS
 - Application Scenario of PRS
 - Typical Configurations of PRS
 - Technical Specifications of PRS
- iManager PRS V100R015 Security Management
 - PRS Security Management Overview
 - PRS Security Management Operation
- iManager PRS V100R015 Data Collection and Processing Flow
 - Data Collection
 - Processing Flow in PRS
 - Operation Procedure for Data Collection in PRS
- iManager PRS V100R015 Administrator Operation and Maintenance(ATAE)
 - 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

Duration

1 working day

Class Size

Min 6, Max 12

1.8 Nastar

1.8.1 iManager Nastar V600R008 GSM Performance Analysis System Application Training

Training Path

iManager Nastar V600R008 GSM Performance Analysis System Application		
ONO11	Lecture, Lab, Demo	2d

Target Audience

GSM Radio Network Optimization Engineers

Prerequisites

- Having basic knowledge in GSM radio network optimization

Objectives

On completion of this program, 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

Training Content

ONO11 iManager Nastar V600R008 GSM Performance Analysis System Application

- iManager Nastar V600R008 System Overview
 - Introduction
 - Architecture
 - Configurations and Technical Specifications
- iManager Nastar V600R008 Data Collection and Processing Flow
 - Data Collection and Processing Flow in Nastar
 - Operation Procedure for Data Collection in Nastar
- iManager Nastar V600R008 GSM Performance Analysis
 - 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

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- GSM VIP Analysis
 - GSM Complaint Analysis Support
 - GSM Cell Performance Analysis

Duration

2 working days

Class Size

Min 6, Max 12

1.8.2 iManager Nastar V600R008 WCDMA Performance Analysis System Application Training

Training Path

iManager Nastar V600R008 WCDMA Performance Analysis System Application		
ONO12	Lecture, Lab, Demo	2d

Target Audience

WCDMA Radio Network Optimization Engineers

Prerequisites

- Having basic knowledge in WCDMA radio network optimization

Objectives

On completion of this program, 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

Training Content

ONO12 iManager Nastar V600R008 WCDMA Performance Analysis System Application

- iManager Nastar V600R008 System Overview
 - Introduction
 - Architecture
 - Configurations and Technical Specifications
- iManager Nastar V600R008 Data Collection and Processing Flow
 - Data Collection and Processing Flow in Nastar
 - Operation Procedure for Data Collection in Nastar
- iManager Nastar V600R008 WCDMA Performance Analysis
 - 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

Duration

2 working days

Class Size

Min 6, Max 12

1.8.3 iManager Nastar V600R009 GSM Performance Analysis System Application Training

Training Path

iManager Nastar V600R009 GSM Performance Analysis System Application		
ONO21	Lecture, Lab, Demo	2d

Target Audience

GSM Radio Network Optimization Engineers

Prerequisites

- Having basic knowledge in GSM radio network optimization

Objectives

On completion of this program, 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

Training Content

ONO21 iManager Nastar V600R009 GSM Performance Analysis System Application

- iManager Nastar V600R009 System Overview
 - Introduction
 - Architecture
 - Configurations and Technical Specifications
- iManager Nastar V600R009 Data Collection and Processing Flow
 - Data Collection and Processing Flow in Nastar
 - Operation Procedure for Data Collection in Nastar
- iManager Nastar V600R009 GSM Performance Analysis
 - 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

Duration

2 working days

Class Size

Min 6, Max 12

1.8.4 iManager Nastar V600R009 WCDMA Performance Analysis System Application Training

Training Path

iManager Nastar V600R009 WCDMA Performance Analysis System Application		
ONO22	Lecture, Lab, Demo	2d

Target Audience

WCDMA Radio Network Optimization Engineers

Prerequisites

- Having basic knowledge in WCDMA radio network optimization

Objectives

On completion of this program, 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

Training Content

ONO22 iManager Nastar V600R009 WCDMA Performance Analysis System Application

- iManager Nastar V600R009 System Overview
 - Introduction
 - Architecture
 - Configurations and Technical Specifications
- iManager Nastar V600R009 Data Collection and Processing Flow
 - Data Collection and Processing Flow in Nastar
 - Operation Procedure for Data Collection in Nastar
- iManager Nastar V600R009 WCDMA Performance Analysis
 - 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

Duration

2 working days

Class Size

Min 6, Max 12

1.8.5 iManager Nastar V600R010 GSM Performance Analysis System Application Training

Training Path

iManager Nastar V600R010 GSM Performance Analysis System Application		
ONO31	Lecture, Lab, Demo	2d

Target Audience

GSM Radio Network Optimization Engineers

Prerequisites

- Having basic knowledge in GSM radio network optimization

Objectives

On completion of this program, 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

Training Content

ONO31 iManager Nastar V600R010 GSM Performance Analysis System Application

- iManager Nastar V600R010 System Overview
 - Introduction
 - Architecture
 - Configurations and Technical Specifications
- iManager Nastar V600R010 Data Collection and Processing Flow
 - Data Collection and Processing Flow in Nastar
 - Operation Procedure for Data Collection in Nastar
- iManager Nastar V600R010 GSM Performance Analysis
 - 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

Duration

2 working days

Class Size

Min 6, Max 12

1.8.6 iManager Nastar V600R010 WCDMA Performance Analysis System Application Training

Training Path

iManager Nastar V600R010 WCDMA Performance Analysis System Application		
ONO32	Lecture, Lab, Demo	2d

Target Audience

WCDMA Radio Network Optimization Engineers

Prerequisites

- Having basic knowledge in WCDMA radio network optimization

Objectives

On completion of this program, 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

Training Content

ONO32 iManager Nastar V600R010 WCDMA Performance Analysis System Application

- iManager Nastar V600R010 System Overview
 - Introduction
 - Architecture
 - Configurations and Technical Specifications
- iManager Nastar V600R010 Data Collection and Processing Flow
 - Data Collection and Processing Flow in Nastar
 - Operation Procedure for Data Collection in Nastar
- iManager Nastar V600R010 WCDMA Performance Analysis
 - 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

Duration

2 working days

Class Size

Min 6, Max 12

1.8.7 iManager Nastar V600R010 LTE Performance Analysis System Application Training

Training Path

iManager Nastar V600R010 LTE Performance Analysis System Application		
ONO33	Lecture, Demo	1d

Target Audience

LTE Radio Network Optimization Engineers

Prerequisites

- Having basic knowledge in LTE radio network optimization

Objectives

On completion of this program, 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.

Training Content

ONO33 iManager Nastar V600R010 LTE Performance Analysis System Application

- iManager Nastar V600R010 System Overview
 - Introduction
 - Architecture
 - Configurations and Technical Specifications
- iManager Nastar V600R010 Data Collection and Processing Flow
 - Data Collection and Processing Flow in Nastar
 - Operation Procedure for Data Collection in Nastar
- iManager Nastar V600R010 LTE Performance Analysis
 - 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

Duration

1 working day

Class Size

Min 6, Max 12

1.8.8 GENEX Nastar V600R011 GSM Performance Analysis System Application Training

Training Path

iManager Nastar V600R011 GSM Performance Analysis System Application		
ONO41	Lecture, Lab, Demo	2d

Target Audience

GSM Radio Network Optimization Engineers

Prerequisites

- Having basic knowledge in GSM radio network optimization

Objectives

On completion of this program, 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

Training Content

ONO41 iManager Nastar V600R011 GSM Performance Analysis System Application

- GENEX Nastar V600R011 System Overview
 - Introduction
 - Architecture
 - Configurations and Technical Specifications
- GENEX Nastar V600R011 Data Collection and Processing Flow
 - Data Collection and Processing Flow in Nastar
 - Operation Procedure for Data Collection in Nastar
- GENEX Nastar V600R011 GSM Performance Analysis
 - 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

Duration

2 working days

Class Size

Min 6, Max 12

1.8.9 GENEX Nastar V600R011 WCDMA Performance Analysis System Application Training

Training Path

iManager Nastar V600R011 WCDMA Performance Analysis System Application		
ONO42	Lecture, Lab, Demo	2d

Target Audience

WCDMA Radio Network Optimization Engineers

Prerequisites

- Having basic knowledge in WCDMA radio network optimization

Objectives

On completion of this program, 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

Training Content

ONO42 iManager Nastar V600R011 WCDMA Performance Analysis System Application

- GENEX Nastar V600R011 System Overview
 - Introduction
 - Architecture
 - Configurations and Technical Specifications
- GENEX Nastar V600R011 Data Collection and Processing Flow
 - Data Collection and Processing Flow in Nastar
 - Operation Procedure for Data Collection in Nastar
- GENEX Nastar V600R011 WCDMA Performance Analysis
 - 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

Duration

2 working days

Class Size

Min 6, Max 12

1.8.10 GENEX Nastar V600R011 LTE Performance Analysis System Application Training

Training Path

iManager Nastar V600R011 LTE Performance Analysis System Application		
ONO43	Lecture, Demo	1d

Target Audience

LTE Radio Network Optimization Engineers

Prerequisites

- Having basic knowledge in LTE radio network optimization

Objectives

On completion of this program, 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.

Training Content

ONO43 iManager Nastar V600R011 LTE Performance Analysis System Application

- GENEX Nastar V600R011 System Overview
 - Introduction
 - Architecture
 - Configurations and Technical Specifications
- GENEX Nastar V600R011 Data Collection and Processing Flow
 - Data Collection and Processing Flow in Nastar
 - Operation Procedure for Data Collection in Nastar
- GENEX Nastar V600R011 LTE Performance Analysis
 - 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

Duration

1 working day

Class Size

Min 6, Max 12

1.8.11 iManager Nastar V600R008 System Administrator Training (HP)

Training Path

iManager Nastar V600R008 System Administrator (HP)		
ONO14	Lecture	1d

Target Audience

Nastar System Administrator

Prerequisites

- Be familiar with Linux operating system
- Be familiar with Oracle database system

Objectives

On completion of this program, 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.

Training Content

ONO14 iManager Nastar V600R008 System Administrator (HP)

- iManager Nastar V600R008 System Overview
 - Introduction
 - Architecture
 - Configurations and Technical Specifications
- iManager Nastar V600R008 Administrator Operation and Maintenance(HP)
 - 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
- iManager Nastar V600R008 Security Management
 - Nastar Security Introduction
 - Operations about Nastar Security Management

Duration

1 working day

Class Size

Min 6, Max 12

1.8.12 iManager Nastar V600R009 System Administrator Training (HP)

Training Path

iManager Nastar V600R009 System Administrator (HP)		
ONO24	Lecture	1d

Target Audience

Nastar System Administrator

Prerequisites

- Be familiar with Linux operating system
- Be familiar with Oracle database system

Objectives

On completion of this program, 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.

Training Content

ONO24 iManager Nastar V600R009 System Administrator (HP)

- iManager Nastar V600R009 System Overview
 - Introduction
 - Architecture
 - Configurations and Technical Specifications
- iManager Nastar V600R009 Administrator Operation and Maintenance(HP)
 - 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
- iManager Nastar V600R009 Security Management
 - Nastar Security Introduction
 - Operations about Nastar Security Management

Duration

1 working day

Class Size

Min 6, Max 12

1.8.13 iManager Nastar V600R010 System Administrator Training (HP)

Training Path

iManager Nastar V600R010 System Administrator (HP)		
ONO34	Lecture	1d

Target Audience

Nastar System Administrator

Prerequisites

- Be familiar with Linux operating system
- Be familiar with Oracle database system

Objectives

On completion of this program, 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.

Training Content

ONO34 iManager Nastar V600R010 System Administrator (HP)

- iManager Nastar V600R010 System Overview
 - Introduction
 - Architecture
 - Configurations and Technical Specifications
- iManager Nastar V600R010 Administrator Operation and Maintenance(HP)
 - 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
- iManager Nastar V600R010 Security Management
 - Nastar Security Introduction
 - Operations about Nastar Security Management

Duration

1 working day

Class Size

Min 6, Max 12

1.8.14 iManager Nastar V600R010 System Administrator Training (ATAE)

Training Path

iManager Nastar V600R010 System Administrator (ATAE)		
ONO35	Lecture	1d

Target Audience

Nastar System Administrator

Prerequisites

- Be familiar with Linux operating system
- Be familiar with Oracle database system

Objectives

On completion of this program, 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.

Training Content

ONO35 iManager Nastar V600R010 System Administrator (ATAE)

- iManager Nastar V600R010 System Overview
 - Introduction
 - Architecture
 - Configurations and Technical Specifications
- iManager Nastar V600R010 Security Management
 - Nastar Security Introduction
 - Operations about Nastar Security Management
- iManager Nastar V600R010 Administrator Operation and Maintenance(ATAE)
 - 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

Duration

1 working day

Class Size

Min 6, Max 12

1.8.15 iManager Nastar V600R011 System Administrator Training (HP)

Training Path

iManager Nastar V600R011 System Administrator (HP)		
ONO44	Lecture	1d

Target Audience

Nastar System Administrator

Prerequisites

- Be familiar with Linux operating system
- Be familiar with Oracle database system

Objectives

On completion of this program, 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.

Training Content

ONO44 iManager Nastar V600R011 System Administrator (HP)

- GENEX Nastar V600R011 System Overview
 - Introduction
 - Architecture
 - Configurations and Technical Specifications
- GENEX Nastar V600R011 Administrator Operation and Maintenance(HP)
 - 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
- GENEX Nastar V600R011 Security Management
 - Nastar Security Introduction
 - Operations about Nastar Security Management

Duration

1 working day

Class Size

Min 6, Max 12

1.8.16 iManager Nastar V600R011 System Administrator Training (ATAE)

Training Path

iManager Nastar V600R011 System Administrator (ATAE)		
ONO45	Lecture	1d

Target Audience

Nastar System Administrator

Prerequisites

- Be familiar with Linux operating system
- Be familiar with Oracle database system

Objectives

On completion of this program, 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.

Training Content

ONO45 iManager Nastar V600R011 System Administrator (ATAE)

- GENEX Nastar V600R011 System Overview
 - Introduction
 - Architecture
 - Configurations and Technical Specifications
- GENEX Nastar V600R011 Security Management
 - Nastar Security Introduction
 - Operations about Nastar Security Management
- GENEX Nastar V600R011 Administrator Operation and Maintenance(ATAE)
 - 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

Duration

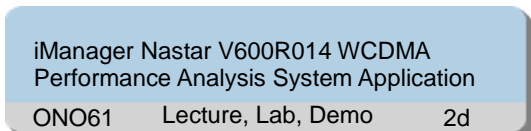
1 working day

Class Size

Min 6, Max 12

1.8.17 GENEX Nastar V600R014 WCDMA Performance Analysis System Application Training

Training Path



Target Audience

WCDMA Radio Network Optimization Engineers

Prerequisites

- Having basic knowledge in WCDMA radio network optimization

Objectives

On completion of this program, 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

Training Content

ONO61 iManager Nastar V600R014 WCDMA Performance Analysis System Application

- GENEX Nastar V600R014 System Overview
 - Introduction
 - Architecture
 - Configurations and Technical Specifications
- GENEX Nastar V600R014 Data Collection and Processing Flow
 - Data Collection and Processing Flow in Nastar
 - Operation Procedure for Data Collection in Nastar
- GENEX Nastar V600R014 WCDMA Performance Analysis
 - 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

Duration

2 working days

Class Size

Min 6, Max 12

1.8.18 GENEX Nastar V600R014 LTE Performance Analysis System Application Training

Training Path

iManager Nastar V600R014 LTE Performance Analysis System Application		
ONO62	Lecture, Demo	1d

Target Audience

LTE Radio Network Optimization Engineers

Prerequisites

- Having basic knowledge in LTE radio network optimization

Objectives

On completion of this program, 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.

Training Content

ONO62 iManager Nastar V600R014 LTE Performance Analysis System Application

- GENEX Nastar V600R014 System Overview
 - Introduction
 - Architecture
 - Configurations and Technical Specifications
- GENEX Nastar V600R014 Data Collection and Processing Flow
 - Data Collection and Processing Flow in Nastar
 - Operation Procedure for Data Collection in Nastar
- GENEX Nastar V600R014 LTE Performance Analysis
 - 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

Duration

1 working day

Class Size

Min 6, Max 12

1.8.19 iManager Nastar V600R014 System Administrator Training (ATAE)

Training Path

iManager Nastar V600R014 System Administrator (ATAE)		
ONO63	Lecture	1d

Target Audience

Nastar System Administrator

Prerequisites

- Be familiar with Linux operating system
- Be familiar with Oracle database system

Objectives

On completion of this program, 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.

Training Content

ONO63 iManager Nastar V600R014 System Administrator (ATAE)

- GENEX Nastar V600R014 System Overview
 - Introduction
 - Architecture
 - Configurations and Technical Specifications
- GENEX Nastar V600R014 Security Management
 - Nastar Security Introduction
 - Operations about Nastar Security Management
- GENEX Nastar V600R014 Administrator Operation and Maintenance(ATAE)
 - 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

Duration

1 working day

Class Size

Min 6, Max 12

1.8.20 GENEX Nastar V600R015 WCDMA Performance Analysis System Application Training

Training Path

iManager Nastar V600R015 WCDMA Performance Analysis System Application		
ONO64	Lecture, Lab, Demo	2d

Target Audience

WCDMA Radio Network Optimization Engineers

Prerequisites

- Having basic knowledge in WCDMA radio network optimization

Objectives

On completion of this program, 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

Training Content

ONO64 iManager Nastar V600R015 WCDMA Performance Analysis System Application

- GENEX Nastar V600R015 System Overview
 - Introduction
 - Architecture
 - Configurations and Technical Specifications
- GENEX Nastar V600R015 Data Collection and Processing Flow
 - Data Collection and Processing Flow in Nastar
 - Operation Procedure for Data Collection in Nastar
- GENEX Nastar V600R015 WCDMA Performance Analysis
 - 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

Duration

2 working days

Class Size

Min 6, Max 12

1.8.21 GENEX Nastar V600R015 LTE Performance Analysis System Application Training

Training Path

iManager Nastar V600R015 LTE Performance Analysis System Application		
ONO65	Lecture, Demo	1d

Target Audience

LTE Radio Network Optimization Engineers

Prerequisites

- Having basic knowledge in LTE radio network optimization

Objectives

On completion of this program, 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.

Training Content

ONO65 iManager Nastar V600R015 LTE Performance Analysis System Application

- GENEX Nastar V600R015 System Overview
 - Introduction
 - Architecture
 - Configurations and Technical Specifications
- GENEX Nastar V600R015 Data Collection and Processing Flow
 - Data Collection and Processing Flow in Nastar
 - Operation Procedure for Data Collection in Nastar
- GENEX Nastar V600R015 LTE Performance Analysis
 - 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

Duration

1 working day

Class Size

Min 6, Max 12

1.8.22 iManager Nastar V600R015 System Administrator Training (ATAE)

Training Path

iManager Nastar V600R015 System Administrator (ATAE)		
ONO66	Lecture	1d

Target Audience

Nastar System Administrator

Prerequisites

- Be familiar with Linux operating system
- Be familiar with Oracle database system

Objectives

On completion of this program, 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.

Training Content

ONO66 iManager Nastar V600R015 System Administrator (ATAE)

- GENEX Nastar V600R015 System Overview
 - Introduction
 - Architecture
 - Configurations and Technical Specifications
- GENEX Nastar V600R015 Security Management
 - Nastar Security Introduction
 - Operations about Nastar Security Management
- GENEX Nastar V600R015 Administrator Operation and Maintenance(ATAE)
 - 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

Duration

1 working day

Class Size

Min 6, Max 12

1.9 Probe

1.9.1 GENEX Probe V200R003 GSM Operation Training

Training Path

GENEX Probe V200R003 GSM Operation		
ONP11	Lecture, Demo	1d

Target Audience

GSM Radio Network Optimization Engineers

Prerequisites

- Having basic knowledge in GSM radio network optimization

Objectives

On completion of this program, 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.

Training Content

ONP11 GENEX Probe V200R003 GSM Operation

- GENEX Probe V200R003 Operation for GSM
 - Huawei GENEX Series Tools
 - GENEX Probe Introduction
 - GENEX Probe Operation Process
 - Test Parameters
 - Additional Function and Operation
 - GENEX Probe Cases Analysis

Duration

1 working day

Class Size

Min 6, Max 12

1.9.2 GENEX Probe V200R003 WCDMA Operation Training

Training Path

GENEX Probe V200R003 WCDMA Operation		
ONP12	Lecture, Demo	1d

Target Audience

WCDMA Radio Network Optimization Engineers

Prerequisites

- Having basic knowledge in WCDMA radio network optimization

Objectives

On completion of this program, 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.

Training Content

ONP12 GENEX Probe V200R003 WCDMA Operation

- GENEX Probe V200R003 Operation for WCDMA
 - Huawei GENEX Series Tools
 - GENEX Probe Introduction
 - GENEX Probe Operation Process
 - Test Parameters
 - Additional Function and Operation
 - GENEX Probe Cases Analysis

Duration

1 working day

Class Size

Min 6, Max 12

1.9.3 GENEX Probe V200R003 LTE Operation Training

Training Path

GENEX Probe V200R003 LTE Operation		
ONP13	Lecture, Demo	1d

Target Audience

LTE Radio Network Optimization Engineers

Prerequisites

- Having basic knowledge in LTE radio network optimization

Objectives

On completion of this program, 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.

Training Content

ONP13 GENEX Probe V200R003 LTE Operation

- Genex Probe V200R003 Operation for LTE
 - Huawei GENEX Series Tools
 - GENEX Probe Introduction
 - GENEX Probe Operation Process
 - Test Parameters
 - Additional Function and Operation
 - GENEX Probe Cases Analysis

Duration

1 working day

Class Size

Min 6, Max 12

1.9.4 GENEX Probe V300R005 GSM Operation Training

Training Path

GENEX Probe V300R005 GSM Operation		
ONP21	Lecture, Demo	1d

Target Audience

GSM Radio Network Optimization Engineers

Prerequisites

- Having basic knowledge in GSM radio network optimization

Objectives

On completion of this program, 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.

Training Content

ONP21 GENEX Probe V300R005 GSM Operation

- GENEX Probe V300R005 Operation for GSM
 - Huawei GENEX Series Tools
 - GENEX Probe Introduction
 - GENEX Probe Operation Process
 - Test Parameters
 - Additional Function and Operation
 - GENEX Probe Cases Analysis

Duration

1 working day

Class Size

Min 6, Max 12

1.9.5 GENEX Probe V300R005 WCDMA Operation Training

Training Path

GENEX Probe V300R005 WCDMA Operation		
ONP22	Lecture, Demo	1d

Target Audience

WCDMA Radio Network Optimization Engineers

Prerequisites

- Having basic knowledge in WCDMA radio network optimization

Objectives

On completion of this program, 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.

Training Content

ONP22 GENEX Probe V300R005 WCDMA Operation

- GENEX Probe V300R005 Operation for WCDMA
 - Huawei GENEX Series Tools
 - GENEX Probe Introduction
 - GENEX Probe Operation Process
 - Test Parameters
 - Additional Function and Operation
 - GENEX Probe Cases Analysis

Duration

1 working day

Class Size

Min 6, Max 12

1.9.6 GENEX Probe V300R005 LTE Operation Training

Training Path

GENEX Probe V300R005 LTE Operation		
ONP23	Lecture, Demo	1d

Target Audience

LTE Radio Network Optimization Engineers

Prerequisites

- Having basic knowledge in LTE radio network optimization

Objectives

On completion of this program, 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.

Training Content

ONP23 GENEX Probe V300R005 LTE Operation

- GENEX Probe V300R005 Operation for LTE
 - Huawei GENEX Series Tools
 - GENEX Probe Introduction
 - GENEX Probe Operation Process
 - Test Parameters
 - Additional Function and Operation
 - GENEX Probe Cases Analysis

Duration

1 working day

Class Size

Min 6, Max 12

1.9.7 GENEX Probe V300R006 WCDMA Operation Training

Training Path

GENEX Probe V300R006 WCDMA Operation		
ONP61	Lecture, Demo	1d

Target Audience

WCDMA Radio Network Optimization Engineers

Prerequisites

- Having basic knowledge in WCDMA radio network optimization

Objectives

On completion of this program, 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.

Training Content

ONP61 GENEX Probe V300R006 WCDMA Operation

- GENEX Probe V300R006 Operation for WCDMA
 - Huawei GENEX Series Tools
 - GENEX Probe Introduction
 - GENEX Probe Operation Process
 - Test Parameters
 - Additional Function and Operation
 - GENEX Probe Cases Analysis

Duration

1 working day

Class Size

Min 6, Max 12

1.9.8 GENEX Probe V300R006 LTE Operation Training

Training Path

GENEX Probe V300R006 LTE Operation		
ONP62	Lecture, Demo	1d

Target Audience

LTE Radio Network Optimization Engineers

Prerequisites

- Having basic knowledge in LTE radio network optimization

Objectives

On completion of this program, 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.

Training Content

ONP62 GENEX Probe V300R006 LTE Operation

- GENEX Probe V300R006 Operation for LTE
 - Huawei GENEX Series Tools
 - GENEX Probe Introduction
 - GENEX Probe Operation Process
 - Test Parameters
 - Additional Function and Operation
 - GENEX Probe Cases Analysis

Duration

1 working day

Class Size

Min 6, Max 12

1.9.9 GENEX Probe V300R015 WCDMA Operation Training

Training Path

GENEX Probe V300R015 WCDMA Operation		
ONP63	Lecture, Demo	1d

Target Audience

WCDMA Radio Network Optimization Engineers

Prerequisites

- Having basic knowledge in WCDMA radio network optimization

Objectives

On completion of this program, 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.

Training Content

ONP63 GENEX Probe V300R015 WCDMA Operation

- GENEX Probe V300R015 Operation for WCDMA
 - Huawei GENEX Series Tools
 - GENEX Probe Introduction
 - GENEX Probe Operation Process
 - Test Parameters
 - Additional Function and Operation
 - GENEX Probe Cases Analysis

Duration

1 working day

Class Size

Min 6, Max 12

1.9.10 GENEX Probe V300R015 LTE Operation Training

Training Path

GENEX Probe V300R015 LTE Operation		
ONP64	Lecture, Demo	1d

Target Audience

LTE Radio Network Optimization Engineers

Prerequisites

- Having basic knowledge in LTE radio network optimization

Objectives

On completion of this program, 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.

Training Content

ONP64 GENEX Probe V300R015 LTE Operation

- GENEX Probe V300R015 Operation for LTE
 - Huawei GENEX Series Tools
 - GENEX Probe Introduction
 - GENEX Probe Operation Process
 - Test Parameters
 - Additional Function and Operation
 - GENEX Probe Cases Analysis

Duration

1 working day

Class Size

Min 6, Max 12

1.10 Assistant

1.10.1 GENEX Assistant V300R005 GSM Operation Training

Training Path

GENEX Assistant V300R005 GSM Operation		
ONA21	Lecture, Demo	1d

Target Audience

GSM Radio Network Optimization Engineers

Prerequisites

- Having basic knowledge in GSM radio network optimization

Objectives

On completion of this program, 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.

Training Content

ONA21 GENEX Assistant V300R005 GSM Operation

- GENEX Assistant V300R005 Operation for GSM
 - GENEX Assistant Introduction
 - GENEX Assistant Operation Process
 - GENEX Assistant Cases Analysis

Duration

1 working day

Class Size

Min 6, Max 12

1.10.2 GENEX Assistant V300R005 WCDMA Operation Training

Training Path

GENEX Assistant V300R005 WCDMA Operation		
ONA22	Lecture, Demo	1d

Target Audience

WCDMA Radio Network Optimization Engineers

Prerequisites

- Having basic knowledge in WCDMA radio network optimization

Objectives

On completion of this program, 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.

Training Content

ONA22 GENEX Assistant V300R005 WCDMA Operation

- GENEX Assistant V300R005 Operation for WCDMA
 - GENEX Assistant Introduction
 - GENEX Assistant Operation Process
 - GENEX Assistant Cases Analysis

Duration

1 working day

Class Size

Min 6, Max 12

1.10.3 GENEX Assistant V300R005 LTE Operation Training

Training Path

GENEX Assistant V300R005 LTE Operation		
ONA23	Lecture, Demo	1d

Target Audience

LTE Radio Network Optimization Engineers

Prerequisites

- Having basic knowledge in LTE radio network optimization

Objectives

On completion of this program, 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.

Training Content

ONA23 GENEX Assistant V300R005 LTE Operation

- Genex Assistant V300R005 Operation for LTE
 - GENEX Assistant Introduction
 - GENEX Assistant Operation Process
 - GENEX Assistant Cases Analysis

Duration

1 working day

Class Size

Min 6, Max 12

1.10.4 GENEX Assistant V300R006 GSM Operation Training

Training Path

GENEX Assistant V300R006 GSM Operation		
ONA31	Lecture, Demo	1d

Target Audience

GSM Radio Network Optimization Engineers

Prerequisites

- Having basic knowledge in GSM radio network optimization

Objectives

On completion of this program, 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.

Training Content

ONA31 GENEX Assistant V300R006 GSM Operation

- GENEX Assistant V300R006 Operation for GSM
 - GENEX Assistant Introduction
 - GENEX Assistant Operation Process
 - GENEX Assistant Cases Analysis

Duration

1 working day

Class Size

Min 6, Max 12

1.10.5 GENEX Assistant V300R006 WCDMA Operation Training

Training Path

GENEX Assistant V300R006 WCDMA Operation		
ONA61	Lecture, Demo	1d

Target Audience

WCDMA Radio Network Optimization Engineers

Prerequisites

- Having basic knowledge in WCDMA radio network optimization

Objectives

On completion of this program, 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.

Training Content

ONA61 GENEX Assistant V300R006 WCDMA Operation

- GENEX Assistant V300R006 Operation for WCDMA
 - GENEX Assistant Introduction
 - GENEX Assistant Operation Process
 - GENEX Assistant Cases Analysis

Duration

1 working day

Class Size

Min 6, Max 12

1.10.6 GENEX Assistant V300R006 LTE Operation Training

Training Path

GENEX Assistant V300R006 LTE Operation		
ONA62	Lecture, Demo	1d

Target Audience

LTE Radio Network Optimization Engineers

Prerequisites

- Having basic knowledge in LTE radio network optimization

Objectives

On completion of this program, 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.

Training Content

ONA62 GENEX Assistant V300R006 LTE Operation

- GENEX Assistant V300R006 Operation for LTE
 - GENEX Assistant Introduction
 - GENEX Assistant Operation Process
 - GENEX Assistant Cases Analysis

Duration

1 working day

Class Size

Min 6, Max 12

1.10.7 GENEX Assistant V300R015 WCDMA Operation Training

Training Path

GENEX Assistant V300R015 WCDMA Operation		
ONA63	Lecture, Demo	1d

Target Audience

WCDMA Radio Network Optimization Engineers

Prerequisites

- Having basic knowledge in WCDMA radio network optimization

Objectives

On completion of this program, 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.

Training Content

ONA63 GENEX Assistant V300R015 WCDMA Operation

- GENEX Assistant V300R015 Operation for WCDMA
 - GENEX Assistant Introduction
 - GENEX Assistant Operation Process
 - GENEX Assistant Cases Analysis

Duration

1 working day

Class Size

Min 6, Max 12

1.10.8 GENEX Assistant V300R015 LTE Operation Training

Training Path

GENEX Assistant V300R015 LTE Operation		
ONA64	Lecture, Demo	1d

Target Audience

LTE Radio Network Optimization Engineers

Prerequisites

- Having basic knowledge in LTE radio network optimization

Objectives

On completion of this program, 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.

Training Content

ONA64 GENEX Assistant V300R015 LTE Operation

- GENEX Assistant V300R015 Operation for LTE
 - GENEX Assistant Introduction
 - GENEX Assistant Operation Process
 - GENEX Assistant Cases Analysis

Duration

1 working day

Class Size

Min 6, Max 12