

Customer Training Catalog Course Descriptions USC Product Technology Training



HUAWEI
HUAWEI Learning Service
2015



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1.1 Training Course Descriptions

USC Product Technology Training Courses are designed as follows:

Code	Training Courses	Level	Duration (working days)	Training Location	Class Size
USC Training Courses					
OHC00	SingleSDB Solution Introduction	II	0.5		6 ~ 12
OHC10	SingleSDB System Introduction-ATCA Platform	II	1		6 ~ 12
OHC20	SingleSDB Operation and Maintenance-ATCA Platform	II	0.5		6 ~ 12
OHC40	SingleSDB Data Configuration-ATCA Platform	II	0.5		6 ~ 12
OHC10	USCDB Principle with Operation and Maintenance	III	1		6 ~ 12
OHC10	USCDB Redundancy Networking Solutions Instruction and Commissioning	III	1		6 ~ 12
OEC90	HSS9860V900R008 System and Networking Overview	II	0.5		6 ~ 12
OEC90	HSS9860V900R008 Subscriber Data Management (GU)	II	0.75		6 ~ 12
OEC90	HSS9860V900R008 Data Configuration (GU)	II	0.75		6 ~ 12
OEC90	HSS9860V900R008 Subscriber Data Management (LTE)	II	0.75		6 ~ 12
OEC90	HSS9860V900R008 Data Configuration (LTE)	II	0.75		6 ~ 12
OHD13	GU HLR9820V900R006 System Introduction	II	0.5		6 ~ 12
OHD33	GU HLR9820V900R006 Subscriber Data Management	II	1		6 ~ 12
OHD43	GU HLR9820V900R006 Data Configuration	II	2.5		6 ~ 12
OEC95	HSS9860 /HLR9820 Maintenance and Troubleshooting(GU)	III	1		6 ~ 12
OEC96	HSS9860V900R008 Maintenance and Troubleshooting (LTE)	III	1		6 ~ 12
OEC97	HSS9860/HLR9820 Emergency Operation and Maintenance (GUL)	III	2		6 ~ 12
OHD92	HSS9860 /HLR9820 Network Planning and Design (GUL)	IV	2		6 ~ 12
OWR21	UPCC Data Configuration	II	2		6 ~ 12
OWR22	UPCC Service Analysis Fundamental	II	2		6 ~ 12

OWR23	UPCC Typical Service Application	III	2		6 ~ 12
OWR24	UPCC Gx Interface Signaling Analysis and Troubleshooting	IV	1		6 ~ 12
OHP10	SmartPCC Service Policy and Solution Introduction	II	0.5		6 ~ 12
OHP60	Data Analysis and PCC Policy Planning	IV	2.5		6 ~ 12
OHQ10	EIR Service Principle and Service Flow Introduction	II	0.5		6 ~ 12
OHQ40	EIR Service Data Configuration and Maintenance	II	1.5		6 ~ 12
OHS10	UIM Service Principle and Service Flow Introduction	II	0.5		6 ~ 12
OHS40	UIM Service Data Configuration and Maintenance	II	1.5		6 ~ 12
OEC11	SAE HSS9820V900R006 System and Networking Introduction	II	0.5		6 ~ 12
OEC31	SAE HSS9820V900R006 Subscriber Data Management	II	0.75		6 ~ 12
OEC41	SAE HSS9820V900R006 Data Configuration	II	0.75		6 ~ 12
OWF11	GU HLR9820V900R003 System Introduction	II	1.5		6 ~ 12
OWF41	GU HLR9820V900R003 Data Configuration	II	2.5		6 ~ 12
OWF31	GU HLR9820V900R003 Subscriber Data Management	II	1		6 ~ 12
OWF21	GU HLR9820V900R003 Routine Operation and Maintenance	II	2		6 ~ 12
OWF71	GU HLR9820V900R003 Seamless Geographic Redundancy	III	1		6 ~ 12
OWF81	GU HLR9820V900R003 System Principle	III	1		6 ~ 12
OWF91	GU HLR9820V900R003 Maintenance and Troubleshooting	III	1		6 ~ 12
ORN11	CDMA HLR9820V900R007 System Introduction	II	1.5		6 ~ 12
ORN21	CDMA HLR9820V900R007 Routine Operation and Maintenance	II	2.25		6 ~ 12
ORN31	CDMA HLR9820V900R007 Subscriber Data Management	II	1		6 ~ 12
ORN41	CDMA HLR9820V900R007 Data Configuration	II	2.25		6 ~ 12
OHC10	SingleSDB Solution Introduction (WBT)	I	0.5H		6 ~ 12
OHC10	ATCA Hardware Platform Introduction (WBT)	II	1H		6 ~ 12
OHC10	USCDB System introduction (WBT)	II	1H		6 ~ 12

OHD90	G/U HLR9820 System Overview and Networking Introduction (WBT)	II	1H		6 ~ 12
OHD90	HSS9860 System Overview and Networking Introduction (WBT)	II	1H		6 ~ 12
OHD90	UPCC System Overview and Networking Introduction (WBT)	II	1H		6 ~ 12

1.2 USC Training Course Descriptions

1.2.1 OHC00 SingleSDB Solution Introduction



Objectives

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

- Describe SingleSDB general Solution
- Describe SingleSDB Redundancy Networking, Performance Feature
- Describe SingleSDB hardware and software structure, General working Principle

Target Audience

Operation and Maintenance Engineer
Technical Support Engineer

Prerequisites

- At least half a year experience of operation and maintenance of telecommunication equipments
- Being familiar with Windows operation and basic UNIX operation
- A basic knowledge of mobile communication

Content

- Evolution Trend of the USC(Unified Subscriber Data Center)
- Huawei proposition of SingleSDB
- Unified OM structure of SingleSDB
- Unified Provisioning structure of SingleSDB
- Function and benefits of SingleSDB Solution
- SingleSDB seamless geographic redundancy solution
- SingleSDB hardware and software structure
- General working Principle

Training Methods

Lectures
LVC

Duration

0.5 working day

Class Size

Min 6, max 12

1.2.2 OHC10 SingleSDB System Introduction-ATCA Platform



Objectives

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

- Describe the architecture of SingleSDB
- Describe the Networking and Interfaces of SingleSDB
- Describe the hardware, logical structure of SingleSDB
- Describe the typical configurations of SingleSDB
- List key advantages of Huawei SingleSDB
- List technical specifications of SingleSDB
- Describe ATCA hardware structure
- Describe ATCA boards function
- Describe connections and cables
- Describe the internal networking of SingleSDB
- Describe the IP address configuration of the USCDB

Target Audience

Operation and Maintenance Engineer
Technical Support Engineer

Prerequisites

- At least half a year experience of operation and maintenance of telecommunication equipments
- Being familiar with Windows operation and basic UNIX operation
- A basic knowledge of mobile communication

Content

- The functions, interfaces, connections of boards
- ATCA hardware structure and Internal buses
- ATCA boards function and configuration rules
- Connections and cables
- The cascading mode between subracks
- The internal networking of SingleSDB
The configuration mode and performance of boards
- The IP address configuration of the USCDB
- The architecture of USCDB
- The Networking and Interfaces of USCDB
- The hardware, logical structure of USCDB
- The typical configurations of USCDB
- List key advantages of Huawei USCDB
- List technical specifications of USCDB

Training Methods

Lectures
LVC

Duration

1 working day

Class Size

Min 6, max 12

1.2.3 OHC20 SingleSDB Operation and Maintenance-ATCA Platform



Objectives

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

- Check device running status
- Backup and restore the system database
- Perform parts replacement
- Perform daily, weekly and yearly maintenance tasks and complete the maintenance record
- Check alarm and performance events and traffic information through LMT Client and perform the on-site diagnosis
- Describe data configuration principles

Target Audience

Operation and Maintenance Engineer
Technical Support Engineer

Prerequisites

- At least half a year experience of operation and maintenance of telecommunication equipments
- Being familiar with Windows operation and basic UNIX operation
- A basic knowledge of mobile communication

Content

- Check device running status

- Backup and restore the system database
- Parts replacement
- Daily, weekly and yearly maintenance tasks and complete the maintenance record
- Check alarm and events
- Traffic measurement through LMT Client
- On-site Diagnosis
- Data configuration principles
- USCDB Routine Operations
- USCDB hardware and software management
- Common Linux operation command
- USCDB Database management
- USCDB backup and recovery operation
- Health checking and maintenance method

Training Methods

Lectures
Hands-on Exercise

Duration

0.5 working day

Class Size

Min 6, max 12

1.2.4 OHC40 SingleSDB Data Configuration-ATCA Platform



Objectives

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

- Describe Board configuration principle
- Describe data configuration principles and steps
- Perform Hardware Data Configuration of USCDB
- Perform Local Office Data Configuration of USCDB
- Perform Signaling Data Configuration of USCDB

Target Audience

Operation and Maintenance Engineer
Technical Support Engineer

Prerequisites

- At least half a year experience of operation and maintenance of telecommunication equipments

- Being familiar with Windows operation and basic UNIX operation
- A basic knowledge of mobile communication

Content

- Board configuration principle
- Data configuration principles and steps
- Hardware Data Configuration of USCDB
- Local Office Data Configuration of USCDB
- Signaling Data Configuration of USCDB

Training Methods

Lectures
Hands-on Exercise

Duration

0.5 working day

Class Size

Min 6, max 12

1.2.5 OHC10 USCDB Principle with Operation and Maintenance



Objectives

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

- Describe service processing flows load balanced, message distribution Principle
- Describe DS Principle Data synchronization, consistency and Replication Principle
- Describe data sync and check Principle
- Database, IM DB service application principle
- Describe PGW working principle, processes and configuration Principle
- Describe PGW service feature

Target Audience

Operation and Maintenance Engineer
Technical Support Engineer

Prerequisites

- At least one year experience of USCDB operation
- Successful completion of the program USCDB Routine Operation and Maintenance Training

Content

- DS Principle Data synchronization, consistency and Replication Principle, and Operation and Maintenance
- Data sync and check Principle, and Operation and Maintenance
- Database, IM DB service application principle, and Operation and Maintenance
- PGW working principle, processes and configuration Principle, and Operation and Maintenance
- PGW service feature

Training Methods

Lectures
Hands-on Exercise

Duration

1 working day

Class Size

Min 6, max 12

1.2.6 OHC10 USCDB Redundancy Networking Solutions Instruction and Commissioning



Objectives

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

- Describe SingleSDB31 general Solution
- Describe SingleSDB31 redundancy networking, performance feature
- Describe SingleSDB31 hardware and software structure, general working principle
- Describe support for redundancy functions
- Perform seamless geographic redundancy commissioning
- Perform HLR service layer redundancy commissioning

Target Audience

Operation and Maintenance Engineer
Technical Support Engineer

Prerequisites

- At least one year experience of USCDB operation

- Successful completion of the program USCDB Routine Operation and Maintenance Training

Content

- SingleSDB general Solution
- SingleSDB redundancy networking, feature
- SingleSDB hardware and software structure, general working principle
- Support for redundancy functions
- Seamless geographic redundancy commissioning
- HLR service layer redundancy commissioning

Training Methods

Lectures

Duration

1 working day

Class Size

Min 6, max 12

1.2.7 OEC90 HSS9860V900R008 System and Networking Overview



Objectives

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

- Describe HSS9860V900R008 product function and application
- Describe HSS9860V900R008 interface protocol function
- Describe HSS9860V900R008 physical and logical structure
- Describe HSS9860V900R008 board function
- Describe HSS9860V900R008 signaling flow
- Describe HSS9860V900R008 software structure
- Describe HSS9860V900R008 IP planning

Target Audience

Operation and Maintenance Engineer
Technical Support Engineer

Prerequisites

- At least half a year experience of operation and maintenance of telecommunication equipments
- Being familiar with Windows operation and basic UNIX operation

- A basic knowledge of mobile communication

Content

- HSS9860V900R008 product function and application
- HSS9860V900R008 interface protocol function
- HSS9860V900R008 physical and logical structure
- HSS9860V900R008 board function
- HSS9860V900R008 signaling flow
- HSS9860V900R008 software structure
- HSS9860V900R008 IP planning

Training Methods

Lectures
LVC
E-lab

Duration

0.5 working day

Class Size

Min 6, max 12

1.2.8 OEC90 HSS9860V900R008 Subscriber Data Management (GU)



Objectives

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

- Perform installation of operation PGW client with GU network
- Perform the method of adding or deleting subscriber
- Modify subscription according to customer requirement
- Perform configuration of subscription data

Target Audience

Operation and Maintenance Engineer
Technical Support Engineer

Prerequisites

- At least half a year experience of operation and maintenance of telecommunication equipments
- Being familiar with Windows operation and basic UNIX operation

- A basic knowledge of mobile communication

Content

- Installation of operation PGW client with G/U network
- The method of adding or deleting subscriber
- Modify subscription according to customer requirement
- Configuration of subscription data

Training Methods

Lectures
Hands-on Exercise
E-lab

Duration

0.75 working day

Class Size

Min 6, max 12

1.2.9 OEC90 HSS9860V900R008 Data Configuration (GU)



Objectives

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

- Describe the steps of HSS9860 data configuration
- Perform hardware and system data configuration
- Perform interface data configuration
- Check the data configuration correctness and validity
- Perform basic debugging of HSS9860 (GU)

Target Audience

Operation and Maintenance Engineer
Technical Support Engineer

Prerequisites

- At least half a year experience of operation and maintenance of telecommunication equipments
- Being familiar with Windows operation and basic UNIX operation

- A basic knowledge of mobile communication

Content

- Procedure of HSS9860 data configuration
- Hardware and system data configuration
- Interface data configuration
- Check the data configuration correctness and validity
- Debugging operation of HSS9860 (GU)

Training Methods

Lectures
Hands-on Exercise
E-lab

Duration

0.75 working day

Class Size

Min 6, max 12

1.2.10 OEC90 HSS9860V900R008 Subscriber Data Management (LTE)



Objectives

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

- Perform installation of operation PGW client with LTE network
- Perform the method of adding or deleting subscriber
- Modify subscription according to customer requirement
- Perform configuration of subscription data

Target Audience

Operation and Maintenance Engineer
Technical Support Engineer

Prerequisites

- At least half a year experience of operation and maintenance of telecommunication equipments
- Being familiar with Windows operation and basic UNIX operation

- A basic knowledge of mobile communication

Content

- Installation of operation PGW client with LTE network
- The method of adding or deleting subscriber
- Modify subscription according to customer requirement
- Configuration of subscription data

Training Methods

Lectures
Hands-on Exercise
E-lab

Duration

0.75 working day

Class Size

Min 6, max 12

1.2.11 OEC90 HSS9860V900R008 Data Configuration (LTE)



Objectives

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

- Describe the steps of HSS9860 data configuration
- Perform hardware and system data configuration
- Perform interface data configuration
- Check the data configuration correctness and validity
- Perform basic debugging of HSS9860 (LTE)

Target Audience

Operation and Maintenance Engineer
Technical Support Engineer

Prerequisites

- At least half a year experience of operation and maintenance of telecommunication equipments
- Being familiar with Windows operation and basic UNIX operation

- A basic knowledge of mobile communication

Content

- Procedure of HSS9860 data configuration
- Hardware and system data configuration
- Interface data configuration
- Check the data configuration correctness and validity
- Debugging operation of HSS9860 (LTE)

Training Methods

Lectures
Hands-on Exercise
E-lab

Duration

0.75 working day

Class Size

Min 6, max 12

1.2.12 OHD13 GU HLR9820V900R006 System Introduction



Objectives

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

- Describe the architecture of G/U HLR9820
- Describe the Networking and Interfaces of G/U HLR9820
- Describe the hardware, logical structure of G/U HLR9820
- Describe the typical configurations of G/U HLR9820
- List technical specifications of G/U HLR9820
- Describe HLR9820 software and hardware structure
- Describe typical G/U service flow and working principle

Target Audience

Operation and Maintenance Engineer
Technical Support Engineer

Prerequisites

- At least half a year experience of operation and maintenance of telecommunication equipments
- Being familiar with Windows operation and

basic UNIX operation

- A basic knowledge of mobile communication

Content

- The architecture of G/U HLR9820
- The Networking and Interfaces of G/U HLR9820
- The hardware, logical structure of G/U HLR9820
- The typical configurations of G/U HLR9820
- List technical specifications of G/U HLR9820
- HLR9820 software and hardware structure
- Typical G/U service flow and working principle

Training Methods

Lectures

LVC

Duration

0.5 working day

Class Size

Min 6, max 12

1.2.13 OHD33 GU HLR9820V900R006 Subscriber Data Management



Objectives

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

- Describe G/U Common Service
- Perform Operator Management
- Perform Subscriber data management
- Perform Network maintenance
- Perform operation of templates to manage subscribers' profiles

Target Audience

Operation and Maintenance Engineer
Technical Support Engineer

Prerequisites

- At least half a year experience of operation and maintenance of telecommunication equipments
- Being familiar with Windows operation and basic UNIX operation
- A basic knowledge of mobile communication

Content

- G/U Common Service
- Operator Management
- Subscriber data management
- Network maintenance
- The HLR9820 subscriber management method and procedure
- The operation to manage subscribers' profiles
- The operation of templates to manage subscribers' profiles
- Subscribers' profiles operations

Training Methods

Lectures
Hands-on Exercise

Duration

1 working day

Class Size

Min 6, max 12

1.2.14 OHD43 GU HLR9820V900R006 Data Configuration



Objectives

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

- Describe data configuration principles and steps(G/U HLR9820 FE)
- Perform Hardware Data Configuration(G/U HLR9820 FE)
- Perform Local Office Data Configuration(G/U HLR9820 FE)
- Perform Signaling Data Configuration(G/U HLR9820 FE)

Target Audience

Operation and Maintenance Engineer
Technical Support Engineer

Prerequisites

- At least half a year experience of operation and maintenance of telecommunication equipments
- Being familiar with Windows operation and basic UNIX operation

- A basic knowledge of mobile communication

Content

- Data configuration principles and steps(G/U HLR9820 FE)
- Hardware Data Configuration(G/U HLR9820 FE)
- Local Office Data Configuration(G/U HLR9820 FE)
- Signaling Data Configuration(G/U HLR9820 FE)

Training Methods

Lectures
Hands-on Exercise

Duration

2.5 working days

Class Size

Min 6, max 12

1.2.15 OEC95 HSS9860 /HLR9820 Maintenance and Troubleshooting(GU)



Objectives

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

- Describe HSS9860/HLR9820 Emergence Maintenance Processing flow
- Describe HSS9860/HLR9820 Equipment fault information collection and processing
- Describe procedures and methods of fault location and troubleshooting
- Describe troubleshooting of G/U service fault

Target Audience

Operation and Maintenance Engineer
Technical Support Engineer

Prerequisites

- At least one year experience of HSS9860/HLR9820 operation
- Successful completion of the program HSS9860/HLR9820 Routine Operation and Maintenance Training

Content

- HSS9860/HLR9820 Emergence Maintenance Processing flow
- HSS9860/HLR9820 Equipment fault information collection and processing
- Procedures and methods of fault location and troubleshooting
- G/U service fault troubleshooting: hardware fault; signaling fault; tele service; supplementary service; etc.

Training Methods

Lectures
Hands-on Exercise
E-lab

Duration

1 working day

Class Size

Min 6, max 12

1.2.16 OEC96 HSS9860V900R008 Maintenance and Troubleshooting (LTE)



Objectives

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

- Describe HSS9860(LTE) Emergence Maintenance Processing flow
- Describe HSS9860(LTE) Equipment fault information collection and processing
- Describe procedures and methods of fault location and troubleshooting
- Describe troubleshooting of LTE service fault
- Describe basic concepts of the S6a/S6d interface
- Describe main signaling procedures related to the S6a/S6d interface
- Describe main Information element of signaling

Target Audience

Operation and Maintenance Engineer
Technical Support Engineer

Prerequisites

- At least one year experience of HSS9860(LTE)operation
- Successful completion of the program HSS9860(LTE) Routine Operation and

Maintenance Training

Content

- HSS9860(LTE) Emergence Maintenance Processing flow
- HSS9860(LTE) Equipment fault information collection and processing
- Procedures and methods of fault location and troubleshooting
- LTE service fault troubleshooting: hardware fault; signaling fault; etc.
- Basic concepts of the S6a/S6d interface
- Main signaling procedures related to the S6a/S6d interface
- Main Information element of signaling

Training Methods

Lectures
Hands-on Exercise
E-lab

Duration

1 working day

Class Size

Min 6, max 12

1.2.17 OEC97 HSS9860/HLR9820 Emergency Operation and Maintenance (GUL)



Objectives

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

- Describe HLR9820 Emergence Maintenance Processing flow
- Describe Procedures and methods of fault location and troubleshooting
- Describe troubleshooting of G/U service fault
- Perform system management, cluster management, disk management and Database management
- Handle hardware, components or service faults

Target Audience

Operation and Maintenance Engineer
Technical Support Engineer

Prerequisites

- At least one year experience of HLR9820 operation
- Successful completion of the program GU HLR9820 Routine Operation and Maintenance

Training

Content

- HLR Emergence Maintenance Processing flow
- ATCA Platform fault information collection and processing
- Procedures and methods of fault location and troubleshooting
- Practice and Solve service fault troubleshooting: hardware fault; signaling fault; tele service; supplementary service

Training Methods

Lectures
Hands-on Exercise
E-lab

Duration

2 working days

Class Size

Min 6, max 12

1.2.18 OHD92 HSS9860 /HLR9820 Network Planning and Design (GUL)



Objectives

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

- Describe the flow and content of SingleSDB network design
- Describe the functions and content of IP interconnection design
- Describe the principle for IP port quantity and NM bandwidth calculation

Target Audience

Operation and Maintenance Engineer
Technical Support Engineer

Prerequisites

- At least half a year experience of operation and maintenance of telecommunication equipments
- Being familiar with Windows operation and basic UNIX operation
- A basic knowledge of mobile communication

Content

- The function of network design
- The flow and content of SingleSDB network design
- The flow and content of SingleSDB network design
- The functions of IP interconnection design

- The content of IP interconnection design
- The methods and principles of IP interconnection design
- The method for G/U HLR information collection
- The method for G/U HLR network solution design
- The method for G/U HLR bandwidth calculation check
- The method for G/U HLR signaling network design
- The function of bandwidth calculation
- The principle for signaling bandwidth calculation
- The principle for data-plane bandwidth calculation
- The principle for business hall and NM bandwidth calculation
- The principle for IP port quantity calculation

Training Methods

Lectures

Duration

2 working days

Class Size

Min 6, max 12

1.2.19 OWR21 UPCC Routine Operation and Maintenance Training



Objectives

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

- Describe the basic services and functions of UPCC
- Describe the hardware and software components
- Describe the background knowledge of data configuration
- Perform the hardware data configuration
- Perform BE and FE data configuration
- Perform the commissioning of interconnection between UPCC and PCEF, between UPCC and the provisioning system, between the UPCC and the M2000
- Perform the installation of operation PGW client with UPCC
- Perform adding or deleting subscriber
- Perform the configuration of subscription data

Target Audience

Operation and Maintenance Engineer
Technical Support Engineer

Prerequisites

- At least half a year experience of operation and maintenance of telecommunication equipments
- Being familiar with Windows operation and basic UNIX operation
- A basic knowledge of PS

Content

- Product positioning
- Basic services and functions
- Hardware and software components
- Product reliability
- Technical specifications of UPCC
- Background knowledge of data configuration
- Hardware data configuration
- BE data configuration
- FE data configuration
- The commissioning of interconnection between UPCC and PCEF
- The commissioning of interconnection between UPCC and the provisioning system
- The commissioning of interconnection between the UPCC and the M2000
- Installation of operation PGW client with UPCC
- The method of adding or deleting subscriber
- Modify subscription according to customer requirement
- Configuration of subscription data

Training Methods

Lectures
Hands-on Exercise

Duration

2 working days

Class Size

Min 6, max 12

1.2.20 OWR22 UPCC Service Analysis Fundamental



Objectives

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

- Describe PS QoS basic theory
- Describe Gx,Rx,Sy interface signaling procedure
- Describe UPCC service configuration base
- Perform UPCC service configuration analysis
- Perform UPCC service configuration cases study

Target Audience

Operation and Maintenance Engineer
Technical Support Engineer

Prerequisites

- At least half a year experience of operation and maintenance of telecommunication equipments
- Being familiar with Windows operation and basic UNIX operation

- A basic knowledge of PS

Content

- Introduce PS QoS basic theory
- Introduce Gx,Rx,Sy interface signaling procedure
- UPCC service configuration base
- UPCC service configuration analysis
- UPCC service configuration cases

Training Methods

Lectures
Hands-on Exercise

Duration

4 working days, 1 day for practice

Class Size

Min 6, max 12

1.2.21 OWR23 UPCC Typical Service Application



Objectives

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

- Perform low-value service management
- Perform VIP guarantee
- Perform quota sharing
- Perform hot-spot traffic management
- Perform subscriber guarantee based on terminal type
- Perform visitor traffic management

Target Audience

Operation and Maintenance Engineer
Technical Support Engineer

Prerequisites

- At least half a year experience of operation and maintenance of telecommunication equipments
- Being familiar with Windows operation and basic UNIX operation

- A basic knowledge of PS

Content

- Low-value service management
- VIP guarantee
- Quota sharing
- Hot-spot traffic management
- Subscriber guarantee based on terminal type
- Visitor traffic management

Training Methods

Lectures
Hands-on Exercise

Duration

2 working days

Class Size

Min 6, max 12

1.2.22 OWR24 UPCC Gx Interface Signaling Analysis and Troubleshooting



Objectives

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

- Describe Diameter base protocol
- Describe Diameter credit control application
- Perform signaling analysis of the FUP service
- Describe basic knowledge for UPCC troubleshooting
- Perform the prerequisite for UPCC activation
- Perform common faults troubleshooting
- Perform case study

Target Audience

Operation and Maintenance Engineer
Technical Support Engineer

Prerequisites

- At least half a year experience of operation and maintenance of telecommunication equipments
- Being familiar with Windows operation and basic UNIX operation

- A basic knowledge of PS

Content

- Diameter base protocol
- Diameter credit control application
- Signaling analysis of the FUP service
- Basic knowledge for UPCC troubleshooting
- Prerequisite for UPCC activation
- Common faults troubleshooting
- Case study

Training Methods

Lectures
Hands-on Exercise

Duration

1 working day, 0.5 day for practice

Class Size

Min 6, max 12

1.2.23 OWR25 UPCC UPCC Network Design Training



Objectives

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

- Describe UPCC network design function and procedure
- Describe UPCC network design rules and methods
- Describe UPCC network interfaces bandwidth calculation methods.

Target Audience

Operation and Maintenance Engineer
Technical Support Engineer

Prerequisites

- At least half a year experience of operation and maintenance of telecommunication equipments
- Being familiar with Windows operation and basic UNIX operation
- A basic knowledge of UPCC and PS

Content

- Introduce UPCC network design function and procedure
- Introduce UPCC network design rules and methods
- Introduce UPCC network interfaces bandwidth calculation methods.

Training Methods

Lectures

Duration

1 working day

Class Size

Min 6, max 12

1.2.24 OHP10 SmartPCC Service Policy and Solution Introduction



Objectives

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

- Describe PS network service development background
- Describe SmartPCC solution functions and features
- Perform SmartPCC solution application cases study

Target Audience

Operation and Maintenance Engineer
Technical Support Engineer

Prerequisites

- At least half a year experience of operation and maintenance of telecommunication equipments

- Being familiar with Windows operation and basic UNIX operation
- A basic knowledge of PS

Content

- PS network service development background
- SmartPCC solution functions and features
- SmartPCC solution application cases

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 12

1.2.25 OHP60 Data Analysis and PCC Policy Planning



Objectives

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

- Describe PCC service policy and solution introduction
- Describe PS Network Service Police Analysis Overview
- Perform PS Network Service Police-Service Analysis
- Perform PS Network Service Police-Location Analysis
- Perform PS Network Service Police-User Analysis
- Perform PS Network Service Police-Terminal Analysis
- Perform PCC Policy Design

Target Audience

Operation and Maintenance Engineer
Technical Support Engineer

Prerequisites

- At least half a year experience of operation and maintenance of telecommunication equipments
- Being familiar with Windows operation and basic UNIX operation
- A basic knowledge of PS

Content

- PS network service development

- Data service analysis methods
- Service analysis introduction
- Service type analysis
- Service access type analysis
- Location analysis introduction
- Location policy implementation methods
- User analysis introduction
- User traffic distribution analysis
- Top traffic user analysis
- Terminal analysis introduction
- High value terminal/low value terminal analysis
- Pre-install software analysis
- Network analysis case
- Congested Region Analysis and Optimization
- Top-Up Analysis and Recommendation
- Valuable Service Analysis and Recommendation
- Tethering Analysis and Control

Training Methods

Lectures
Hands-on Exercise

Duration

2.5 working days

Class Size

Min 6, max 12

1.2.26 OHQ10 EIR Service Principle and Service Flow Introduction



Objectives

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

- Describe EIR system structure, networking, hardware and software feature
- Describe EIR service feature and working principle
- Describe EIR service flow and message introduction

Target Audience

Operation and Maintenance Engineer
Technical Support Engineer

Prerequisites

- At least half a year experience of operation and maintenance of telecommunication equipments
- Being familiar with Windows operation and

basic UNIX operation

- A basic knowledge of mobile communication

Content

- UEIR system structure, networking, hardware and software feature
- UEIR service feature and working principle
- UEIR service flow and message introduction

Training Methods

Lectures

LVC

Duration

0.5 working day

Class Size

Min 6, max 12

1.2.27 OHQ40 EIR Service Data Configuration and Maintenance



Objectives

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

- Perform EIR installation, service data configuration
- Explain the service provisioning principle, procedure and Perform operation
- Complete EIR service provisioning
- Complete EIR routine operation and maintenance tasks
- Accomplish the basic maintenance for the processes, links and services fault

Target Audience

Operation and Maintenance Engineer
Technical Support Engineer

Prerequisites

- At least half a year experience of operation and maintenance of telecommunication equipments
- Being familiar with Windows operation and

basic UNIX operation

- A basic knowledge of mobile communication

Content

- UEIR installation, service data configuration
- Service provisioning principle, procedure and operation
- UEIR service provisioning configuration
- UEIR routine operation and maintenance tasks
- Basic maintenance of service processes, links and services fault

Training Methods

Lectures
Hands-on Exercise

Duration

1.5 working days

Class Size

Min 6, max 12

1.2.28 OHS10 UIM Service Principle and Service Flow Introduction



Objectives

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

- Describe UIM system structure, networking, hardware and software feature
- Describe UIM service feature and working principle
- Describe UIM service flow and message introduction

Target Audience

Operation and Maintenance Engineer
Technical Support Engineer

Prerequisites

- At least half a year experience of operation and maintenance of telecommunication equipments
- Being familiar with Windows operation and

basic UNIX operation

- A basic knowledge of mobile communication

Content

- UIM system structure, networking, hardware and software feature
- UIM service feature and working principle
- UIM service flow and message introduction

Training Methods

Lectures

LVC

Duration

0.5 working day

Class Size

Min 6, max 12

1.2.29 OHS40 UIM Service Data Configuration and Maintenance



Objectives

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

- Perform UIM installation, service data configuration
- Explain the service provisioning principle, procedure and Perform operation
- Complete UIM service provisioning
- Complete UIM routine operation and maintenance tasks
- Accomplish the basic maintenance for the processes, links and services fault

Target Audience

Operation and Maintenance Engineer
Technical Support Engineer

Prerequisites

- At least half a year experience of operation and maintenance of telecommunication equipments
- Being familiar with Windows operation and

basic UNIX operation

- A basic knowledge of mobile communication

Content

- UIM installation, service data configuration
- Service provisioning principle, procedure and operation
- UIM service provisioning configuration
- UIM routine operation and maintenance tasks
- Basic maintenance of service processes, links and services fault

Training Methods

Lectures
Hands-on Exercise

Duration

1.5 working days

Class Size

Min 6, max 12

1.2.30 OEC11 SAE HSS9820V900R006 System and Networking Introduction



Objectives

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

- Describe HSS9820V900R006 product function and application
- Describe HSS9820V900R006 interface protocol function
- Describe HSS9820V900R006 physical and logical structure
- Describe HSS9820V900R006 board function
- Describe HSS9820V900R006 signaling flow
- Describe HSS9820V900R006 software structure
- Describe HSS9820V900R006 IP planning

Target Audience

Operation and Maintenance Engineer
Technical Support Engineer

Prerequisites

- At least half a year experience of operation and maintenance of telecommunication equipments
- Being familiar with Windows operation and

basic UNIX operation

- A basic knowledge of mobile communication

Content

- HSS9820V900R006 product function and application
- HSS9820V900R006 interface protocol function
- HSS9820V900R006 physical and logical structure
- HSS9820V900R006 board function
- HSS9820V900R006 signaling flow
- HSS9820V900R006 software structure
- HSS9820V900R006 IP planning

Training Methods

Lectures

LVC

Duration

0.5 working day

Class Size

Min 6, max 12

1.2.31 OEC31 SAE HSS9820V900R006 Subscriber Data Management



Objectives

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

- Perform installation of operation PGW client
- Perform the method of adding or deleting subscriber
- Modify subscription according to customer requirement
- Perform configuration of subscription data

Target Audience

Operation and Maintenance Engineer
Technical Support Engineer

Prerequisites

- At least half a year experience of operation and maintenance of telecommunication equipments
- Being familiar with Windows operation and basic UNIX operation

- A basic knowledge of mobile communication

Content

- Installation of operation PGW client
- The method of adding or deleting subscriber
- Modify subscription according to customer requirement
- Configuration of subscription data

Training Methods

Lectures
Hands-on Exercise

Duration

0.75 working day

Class Size

Min 6, max 12

1.2.32 OEC41 SAE HSS9820V900R006 Data Configuration



Objectives

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

- Describe the steps of HSS9820 data configuration
- Perform hardware and system data configuration
- Perform interface data configuration
- Check the data configuration correctness and validity
- Perform basic debugging of SAE-HSS9820

Target Audience

Operation and Maintenance Engineer
Technical Support Engineer

Prerequisites

- At least half a year experience of operation and maintenance of telecommunication equipments
- Being familiar with Windows operation and

basic UNIX operation

- A basic knowledge of mobile communication

Content

- Procedure of HSS9820 data configuration
- Hardware and system data configuration
- Interface data configuration
- Check the data configuration correctness and validity
- Debugging operation of SAE-HSS9820

Training Methods

Lectures
Hands-on Exercise

Duration

0.75 working day

Class Size

Min 6, max 12

1.2.33 OWF11 GU HLR9820V900R003 System Introduction



Objectives

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

- Describe the structure of HUAWEI HLR9820
- Describe the functions of each part
- Describe the elements of HLR9820 and the relationship of them
- Describe the basic performance parameter
- Describe System architecture
- Describe Functional modules
- Describe Working principles of the HLR9820 modules
- Describe HLR9820 hardware structure
- Describe HLR9820 boards function
- Describe connections and cables
- Describe the internal networking of HLR9820
- Describe the IP address configuration of the HLR9820

Target Audience

Operation and Maintenance Engineer
Technical Support Engineer

Prerequisites

- At least half a year experience of operation and maintenance of telecommunication equipments

- Being familiar with Windows operation and basic UNIX operation
- A basic knowledge of mobile communication

Content

- The structure of HUAWEI HLR9820
- The functions of each part
- The elements of HLR9820 and the relationship of them
- The basic parameter
- System architecture
- Functional modules
- Working principles of the HLR9820 modules
- HLR9820 hardware structure
- HLR9820 boards function
- Connections and cables

Training Methods

Lectures

LVC

Duration

1.5 working days

Class Size

Min 6, max 12

1.2.34 OWF41 GU HLR9820V900R003 Data Configuration



Objectives

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

- Perform Hardware Data Configuration
- Perform Local Office Data Configuration
- Perform Signaling Data Configuration

Target Audience

Operation and Maintenance Engineer
Technical Support Engineer

Prerequisites

- At least half a year experience of operation and maintenance of telecommunication equipments
- Being familiar with Windows operation and basic UNIX operation
- A basic knowledge of mobile communication

Content

- Hardware Data Configuration
- Local Office Data Configuration
- Signaling Data Configuration
- The internal networking of HLR9820
- The IP address configuration of the HLR9820

Training Methods

Lectures
Hands-on Exercise

Duration

2.5 working days

Class Size

Min 6, max 12

1.2.35 OWF31 GU HLR9820V900R003 Subscriber Data Management



Objectives

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

- Describe UMTS common service feature
- Perform Operator Management
- Perform Network maintenance
- Describe the HLR9820 subscriber management method and procedure
- Perform operation to manage subscribers' profiles
- Perform operation of templates to manage subscribers' profiles
- Perform operation to modify services according to the requests from subscribers
- Perform operation to Check subscribers' profiles based on different fault phenomena

Target Audience

Operation and Maintenance Engineer
Technical Support Engineer

Prerequisites

- At least half a year experience of operation and maintenance of telecommunication equipments
- Being familiar with Windows operation and basic UNIX operation

- A basic knowledge of mobile communication

Content

- UMTS Common Service Feature
- Operator Management
- Network maintenance method
- HLR9820 subscriber management method and procedure
- Operation to manage subscribers' profiles
- Operation of templates to manage subscribers' profiles
- Modify services according to the requests from subscribers
- Check subscribers' profiles based on different fault phenomena

Training Methods

Lectures
Hands-on Exercise

Duration

1 working day

Class Size

Min 6, max 12

1.2.36 OWF21 GU HLR9820V900R003 Routine Operation and Maintenance



Objectives

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

- Perform Operations of HLR9820 routine maintenance
- Describe Usage of the Autocheck tool
- Perform Security Management
- Perform BAM Operation
- Perform Alarm Operations
- Perform Tracing Operations
- Perform Performance Operations

Target Audience

Operation and Maintenance Engineer
Technical Support Engineer

Prerequisites

- At least half a year experience of operation and maintenance of telecommunication equipments
- Being familiar with Windows operation and

basic UNIX operation

- A basic knowledge of mobile communication

Content

- Operations of HLR9820 routine maintenance
- Usage of the Autocheck tool
- Security Management
- BAM Operation
- Alarm Operations
- Tracing Operations

Training Methods

Lectures
Hands-on Exercise

Duration

2 working days

Class Size

Min 6, max 12

1.2.37 OWF71 GU HLR9820V900R003 Seamless Geographic Redundancy



Objectives

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

- Describe HLR9820 typical networking and configuration
- Describe DS layer redundancy, data and service distribution
- Describe Redundancy Principle
- Describe Baseline establishment, increment data synchronization, recovery operation Key parameters and configuration

Target Audience

At least one year experience of HLR9820 operation

Successful completion of the program GU HLR9820 Routine Operation and Maintenance Training

Prerequisites

- At least one year experience of HLR9820 operation

- Successful completion of the program GU HLR9820 Routine Operation and Maintenance Training

Content

- HLR9820 typical networking and configuration
- DS layer redundancy, data and service distribution
- DS Redundancy Principle
- DS Baseline establishment principle
- DS increment data synchronization principle
- DS recovery operation Key parameters and configuration

Training Methods

Lectures

Duration

1 working day

Class Size

Min 6, max 12

1.2.38 OWF81 GU HLR9820V900R003 System Principle



Objectives

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

- Describe SAU inner flows load balanced, message distribution Principle
- Describe BAM working principle, processes and configuration Principle
- Describe SMU working principle, processes and configuration Principle
- Describe DS Principle Data synchronization, consistency and Replication Principle
- Describe data sync and check Principle
- Database, IM DB service application principle

Target Audience

At least one year experience of HLR9820 operation

Successful completion of the program GU HLR9820 Routine Operation and Maintenance Training

Prerequisites

- At least one year experience of HLR9820 operation

- Successful completion of the program GU HLR9820 Routine Operation and Maintenance Training

Content

- SAU inner flows load balanced, message distribution Principle
- BAM working principle, processes and configuration Principle
- SMU working principle, processes and configuration Principle
- DS Principle Data synchronization Principle
- DS consistency and Replication Principle
- DS data sync and check Principle
- Database, IM DB service application principle

Training Methods

Lectures

Duration

1 working day

Class Size

Min 6, max 12

1.2.39 OWF91 GU HLR9820V900R003 Maintenance and Troubleshooting



Objectives

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

- HLR9820 FE and BE Emergence Maintenance Processing flow
- HLR9820 Equipment fault information collection and processing
- Procedures and methods of fault location and troubleshooting: Use the HDU system maintenance tools
- Perform HDU system management, cluster management, disk management and Database management
- Handle hardware, components or service faults

Target Audience

At least one year experience of HLR9820 operation
Successful completion of the program GU HLR9820 Routine Operation and Maintenance Training

Prerequisites

- At least one year experience of HLR9820 operation
- Successful completion of the program GU

HLR9820 Routine Operation and Maintenance Training

Content

- HLR9820 FE and BE emergence maintenance processing flow
- HLR9820 Equipment fault information collection and processing
- Procedures and methods of fault locating and troubleshooting
- Method to use the system maintenance tools
- Hardware, cluster management and database management
- Typical service faults treatment
- Typical hardware and components faults treatment

Training Methods

Lectures
Hands-on Exercise

Duration

1 working day

Class Size

Min 6, max 12

1.2.40 ORN11 CDMA HLR9820V900R007 System Introduction



Objectives

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

- Describe the architecture of CDMA HLR9820
- Describe the Networking and Interfaces of CDMA HLR9820
- Describe the hardware, logical structure of CDMA HLR9820
- Describe the Typical configurations of CDMA HLR9820
- List key advantages of CDMA HLR9820
- List technical specifications of CDMA HLR9820
- Describe HLR9820 boards function
- Describe connections and cables
- Describe the IP address configuration of the HLR9820

Target Audience

Operation and Maintenance Engineer
Technical Support Engineer

Prerequisites

- At least half a year experience of operation and maintenance of telecommunication equipments
- Being familiar with Windows operation and

basic UNIX operation

- A basic knowledge of mobile communication

Content

- The structure of HUAWEI HLR9820
- The functions of each part
- The elements of HLR9820 and the relationship of them
- The basic parameter
- System architecture
- System modules function
- Working principles of the HLR9820 modules
- HLR9820 hardware structure
- HLR9820 boards function
- Connections and cables

Training Methods

Lectures
LVC

Duration

1.5 working days

Class Size

Min 6, max 12

1.2.41 ORN21 CDMA HLR9820V900R007 Routine Operation and Maintenance



Objectives

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

- Perform Security Management
- Perform LMT Operation and Maintenance
- Perform Performance Operations
- Perform SMM Operations

Target Audience

Operation and Maintenance Engineer
Technical Support Engineer

Prerequisites

- At least half a year experience of operation and maintenance of telecommunication equipments
- Being familiar with Windows operation and basic UNIX operation
- A basic knowledge of mobile communication

Content

- Operations of HLR9820 routine maintenance
- Usage of the Autocheck tool
- N/A
- Commands for Operating Folders
- Commands for Operating Files
- Commands for Viewing Files
- Commands for Managing Users
- Commands for Managing Resources
- Commands for Network Communication

Training Methods

Lectures
Hands-on Exercise

Duration

2.25 working days

Class Size

Min 6, max 12

1.2.42 ORN31 CDMA HLR9820V900R007 Subscriber Data Management



Objectives

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

- Describe CDMA Common Service
- Perform Operator Management
- Perform Subscriber data management
- Perform Network maintenance

Target Audience

Operation and Maintenance Engineer
Technical Support Engineer

Prerequisites

- At least half a year experience of operation and maintenance of telecommunication equipments
- Being familiar with Windows operation and basic UNIX operation

- A basic knowledge of mobile communication

Content

- CDMA Common Service
- Operator Management
- Subscriber data management
- Network maintenance

Training Methods

Lectures
Hands-on Exercise

Duration

1 working day

Class Size

Min 6, max 12

1.2.43 ORN41 CDMA HLR9820V900R007 Data Configuration



Objectives

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

- Describe data configuration principles and steps
- Perform Hardware Data Configuration
- Perform Local Office Data Configuration
- Perform Signaling Data Configuration

Target Audience

Operation and Maintenance Engineer
Technical Support Engineer

Prerequisites

- At least half a year experience of operation and maintenance of telecommunication equipments
- Being familiar with Windows operation and basic UNIX operation

- A basic knowledge of mobile communication

Content

- The internal networking of HLR9820
- The IP address configuration of the HLR9820
- Hardware Data Configuration
- Local Office Data Configuration
- Signaling Data Configuration

Training Methods

Lectures
Hands-on Exercise

Duration

2.25 working days

Class Size

Min 6, max 12

1.2.44 OHC10 SingleSDB Solution Introduction (WBT)



Objectives

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

- Describe SingleSDB general Solution
- Describe SingleSDB Redundancy Networking, Performance Feature
- Describe SingleSDB hardware and software structure, General working Principle

Target Audience

Operation and Maintenance Engineer
Technical Support Engineer

Prerequisites

- At least one year experience of HLR9820 operation
- Successful completion of the program GU HLR9821 Routine Operation and Maintenance Training

Content

- Evolution Trend of the USC(Unified Subscriber Data Center)
- Huawei proposition of SingleSDB
- Unified OM structure of SingleSDB
- Unified Provisioning structure of SingleSDB
- Function and benefits of SingleSDB Solution
- SingleSDB seamless geographic redundancy solution
- SingleSDB hardware and software structure
- General working Principle

Training Methods

Multi-media

Duration

0.5H

Class Size

Min 6, max 12

1.2.45 OHC10 ATCA Hardware Platform Introduction (WBT)



Objectives

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

- Describe ATCA hardware structure
- Describe ATCA boards function
- Describe connections and cables
- Describe the internal networking of SingleSDB
- Describe the IP address configuration of the USCDB

Target Audience

Operation and Maintenance Engineer
Technical Support Engineer

Prerequisites

- At least one year experience of HLR9820 operation
- Successful completion of the program GU HLR9822 Routine Operation and Maintenance Training

Content

- The functions, interfaces, connections of boards
- ATCA hardware structure and Internal buses
- ATCA boards function and configuration rules
- Connections and cables
- The cascading mode between subracks
- The internal networking of SingleSDB
The configuration mode and performance of boards
- The IP address configuration of the USCDB

Training Methods

Multi-media

Duration

1H

Class Size

Min 6, max 12

1.2.46 OHC10 USCDB System introduction (WBT)



Objectives

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

- Describe the architecture of USCDB
- Describe the Interfaces of USCDB
- Describe the hardware, logical structure of USCDB
- Describe the typical configurations of USCDB

Target Audience

Operation and Maintenance Engineer
Technical Support Engineer

Prerequisites

- At least one year experience of HLR9820 operation
- Successful completion of the program GU HLR9823 Routine Operation and Maintenance

Training

Content

- The architecture of USCDB
- The networking and Interfaces of USCDB
- The hardware, logical structure of USCDB
- The typical configurations of USCDB
- List key advantages of Huawei USCDB
- List technical specifications of USCDB

Training Methods

Multi-media

Duration

1H

Class Size

Min 6, max 12

1.2.47 OHD90 G/U HLR9820 System Overview and Networking Introduction (WBT)



Objectives

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

- Describe the architecture of G/U HLR9820
- Describe the Networking and Interfaces of G/U HLR9820
- Describe the hardware, logical structure of G/U HLR9820
- Describe the typical configurations of G/U HLR9820
- List technical specifications of G/U HLR9820
- Describe HLR9820 software and hardware structure
- Describe typical G/U service flow and working principle

Target Audience

Operation and Maintenance Engineer
Technical Support Engineer

Prerequisites

- At least one year experience of HLR9820 operation

- Successful completion of the program GU HLR9824 Routine Operation and Maintenance Training

Content

- The architecture of G/U HLR9820
- The networking and interfaces of G/U HLR9820
- The hardware, logical structure of G/U HLR9820
- The typical configurations of G/U HLR9820
- List technical specifications of G/U HLR9820
- HLR9820 software and hardware structure
- Typical G/U service flow and working principle

Training Methods

Multi-media

Duration

1H

Class Size

Min 6, max 12

1.2.48 OHD90 HSS9860 System Overview and Networking Introduction (WBT)



Objectives

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

- Describe the architecture of HSS9860
- Describe the networking and interfaces of HSS9860
- Describe the hardware, logical structure of HSS9860
- Describe the typical configurations of HSS9860
- List technical specifications of HSS9860
- Describe HSS9860 software and hardware structure
- Describe typical G/U and LTE service flow and working principle

Target Audience

Operation and Maintenance Engineer
Technical Support Engineer

Prerequisites

- At least one year experience of HSS9860 operation

- Successful completion of the program HSS9860 Routine Operation and Maintenance Training

Content

- The architecture of HSS9860
- The Networking and Interfaces of HSS9860
- The hardware, logical structure of HSS9860
- The typical configurations of HSS9860
- List technical specifications of HSS9860
- HSS9860 software and hardware structure
- Typical G/U and LTE service flow and working principle

Training Methods

Multi-media

Duration

1H

Class Size

Min 6, max 12

1.2.49 OHD90 UPCC System Overview and Networking Introduction (WBT)



Objectives

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

- Describe the architecture of UPCC
- Describe the Networking and Interfaces of UPCC
- Describe the hardware, logical structure of UPCC
- Describe the typical configurations of UPCC
- List technical specifications of UPCC
- Describe UPCC software and hardware structure
- Describe typical UPCC service flow and working principle

Target Audience

Operation and Maintenance Engineer
Technical Support Engineer

Prerequisites

- At least one year experience of UPCC operation

- Successful completion of the program UPCC Routine Operation and Maintenance Training

Content

- The architecture of UPCC
- The networking and interfaces of UPCC
- The hardware, logical structure of UPCC
- The typical configurations of UPCC
- List technical specifications of UPCC
- UPCC software and hardware structure
- Typical UPCC service flow and working principle

Training Methods

Multi-media

Duration

1H

Class Size

Min 6, max 12

