



Customer Training Catalog Training Programs NGN and STP



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2015

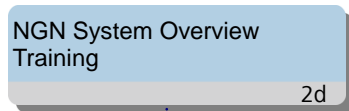


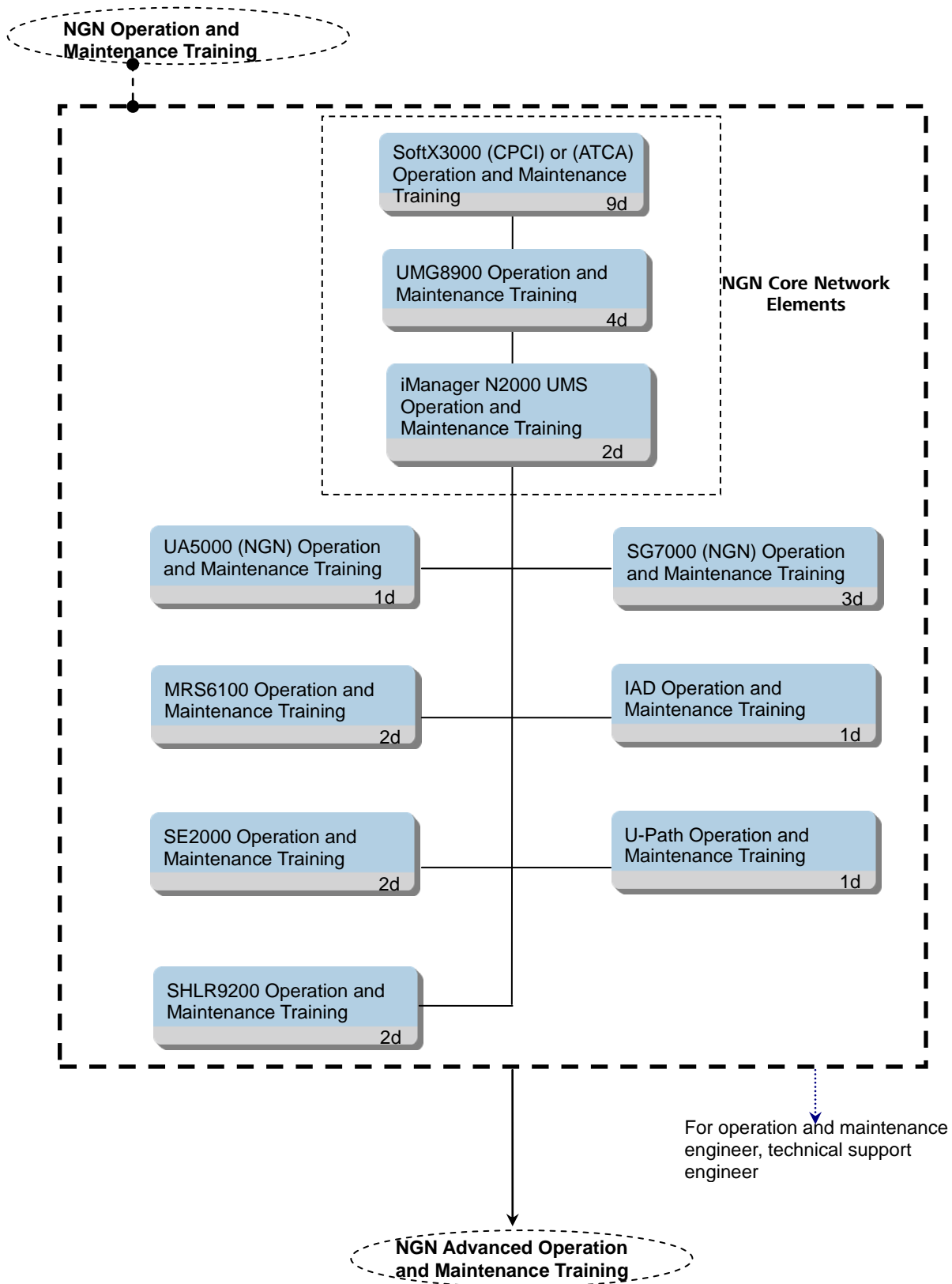
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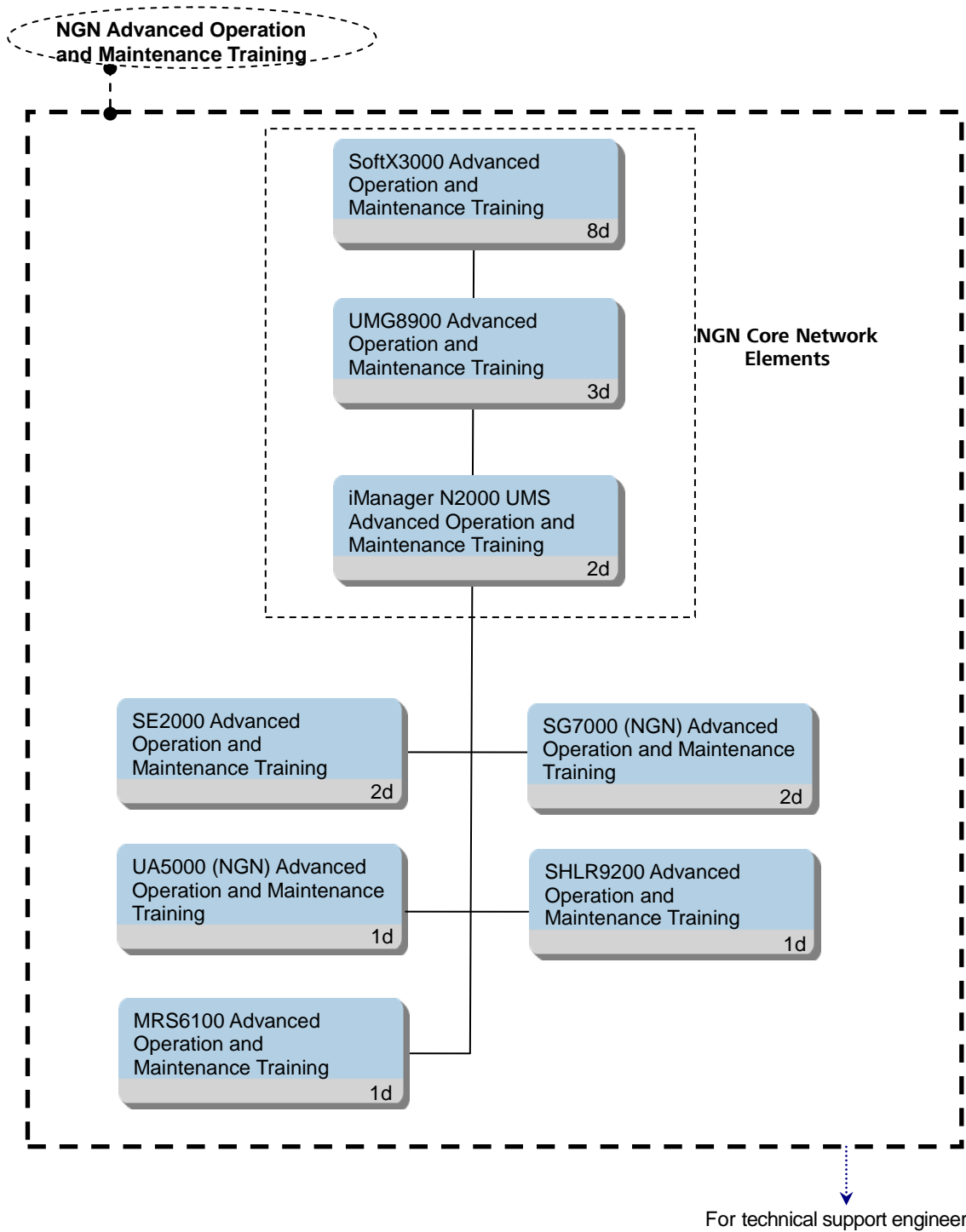
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1 Training Path

1.1 NGN Training Path

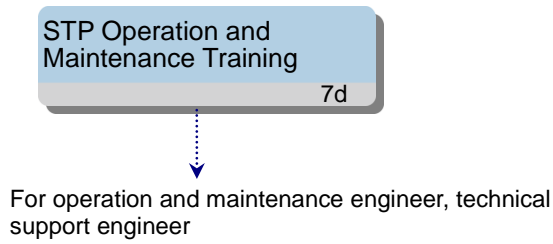




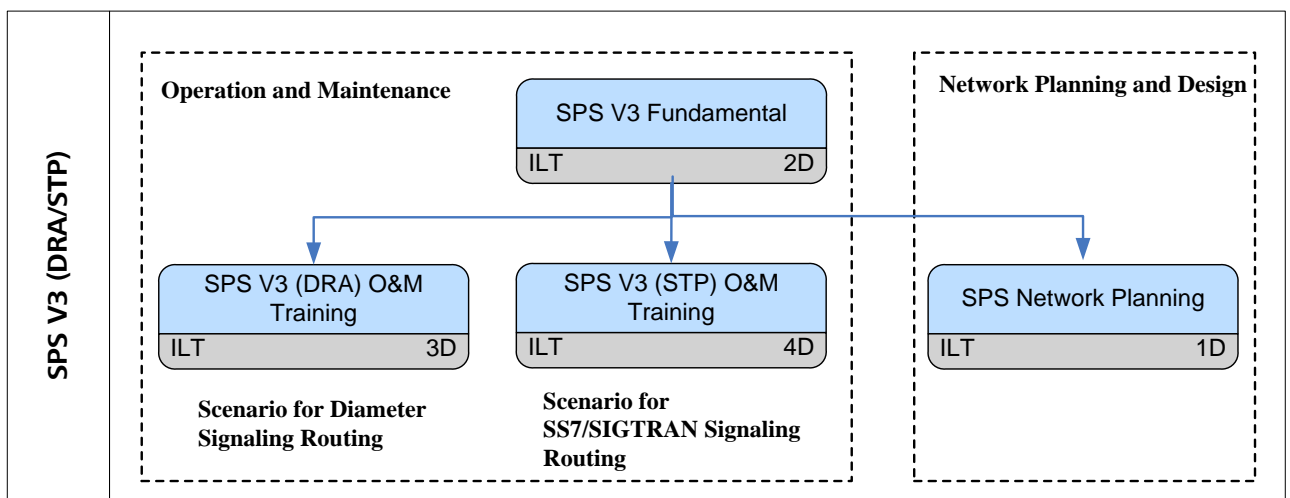


- ⋯→ For Target
- Training Upgrade

1.2 STP Training Path



1.3 SPS V3 Training Path



2 Training Programs

NGN&STP Training Programs are designed as follows:

Training Programs	Level	Duration (working days)	Training Location	Class Size
Telecom Management Engineer				
NGN System Overview Training	I	2		6 ~ 12
NGN O&M Engineer				
SoftX3000 (CPCI) Operation and Maintenance Training	II	9		6 ~ 12
SoftX3000 (ATCA) Operation and Maintenance Training	II	9		6 ~ 12
UMG8900 Operation and Maintenance Training	II	4		6 ~ 12
iManager N2000 UMS Operation and Maintenance Training	II	2		6 ~ 12
MRS6100 Operation and Maintenance Training	II	2		6 ~ 12
SG7000 (NGN) Operation and Maintenance Training	II	3		6 ~ 12
SHLR9200 Operation and Maintenance Training	II	2		6 ~ 12
SE2000 Operation and Maintenance Training	II	2		6 ~ 12
UA5000 (NGN) Operation and Maintenance Training	II	1		6 ~ 12
IAD Operation and Maintenance Training	II	1		6 ~ 12
U-Path Operation and Maintenance Training	II	1		6 ~ 12
NGN Advanced O&M Engineer				
SoftX3000 Advanced Operation and Maintenance Training	III	8		6 ~ 12
UMG8900 Advanced Operation and Maintenance Training	III	3		6 ~ 12
iManager N2000 UMS Advanced Operation and Maintenance Training	III	2		6 ~ 12
MRS6100 Advanced Operation and Maintenance Training	III	1		6 ~ 12
SG7000 (NGN) Advanced Operation and Maintenance Training	III	2		6 ~ 12
SHLR9200 Advanced Operation and Maintenance Training	III	1		6 ~ 12
SE2000 Advanced Operation and Maintenance Training	III	2		6 ~ 12
UA5000 (NGN) Advanced Operation and Maintenance Training	III	1		6 ~ 12

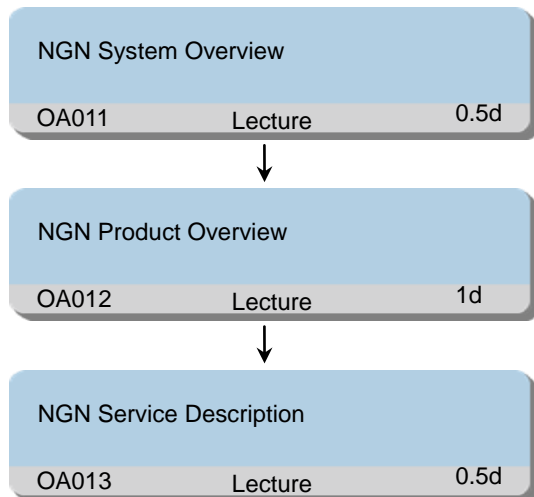
Network Planning and Design				
NGN Network Planning and Design Training (CPCI)	IV	3		6 ~ 12
STP				
STP Operation and Maintenance Training	II	7		6 ~ 12
SANEX Operation and Maintenance Training	II	3		6 ~ 12
SPS V3				
SPS V3 (DRA) Operation and Maintenance Training	II	5		6 ~ 12
SPS V3 (STP) Operation and Maintenance Training	II	5		6 ~ 12

3 Training Programs

3.1 NGN Training Programs

3.1.1 NGN System Overview Training

Training Path



Target Audience

Telecom management personnel

Prerequisites

- A general understanding of telecommunications and data communications

Objectives

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

- Describe the structure of the telecommunication network

- Describe the basic concepts, system architecture, services, networking and applications of NGN
- Describe the network topology, services and functions of NGN equipment
- Outline the functions of NGN protocols
- Outline the features, advantages, actuality and development trend of NGN
- Outline the components, services, networking and applications of Huawei U-SYS solution
- Describe the network topology, services and functions of NGN equipment in Huawei U-SYS solution
- Outline the system structure, networking, applications and technical specifications of NGN equipment in Huawei U-SYS solution
- Describe the functions, characteristics, applications and uses of all services (including basic voice services, supplementary services and IN services) supported by Huawei U-SYS solution

Duration

2 working days

Class Size

Min 6, Max 12

3.1.2 SoftX3000 (CPCI) Operation and Maintenance Training

Training Path

SoftX3000 (CPCI) Operation and Maintenance		
OAX30	Lecture, Lab, E-lab	9d

Target Audience

Operating and maintenance personnel, technical support personnel

Prerequisites

- Familiar with computer operation and Windows system
- A general understanding of telecommunications and data communications
- At least one year of experience in the operation and maintenance of telecommunications equipment

Objectives

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

- Describe the basic concepts, system architecture, services, networking and applications of NGN
- Outline the components, services, networking and applications of Huawei U-SYS solution
- Explain the functions, features, applications, terms, stack structure and messages of NGN protocols (MGCP, H.248, SIP, SIGTRAN and H.323)
- Describe the network topology, services,

functions, system structure, board functions, board indicators, networking, applications and technical specifications of SoftX3000

- Outline the service data configuration steps of SoftX3000, and execute the common service data configuration (local office data configuration, charging data configuration, media gateway data configuration, MRS data configuration, protocol data configuration, SS7 signaling data configuration, routing data configuration, trunk data configuration, number analysis data configuration, subscriber data configuration)
- Perform the routine operation and maintenance of SoftX3000 (operator authority management, database backup and restoration, data consistent checking between the host and BAM, log management, alarm management, device management, media gateway management, protocol and signaling management, trunk circuit management, subscriber management, bill management, traffic statistics)
- Perform the routine operation and maintenance of iGWB
- Perform the common troubleshooting of SoftX3000

Duration

9 working days

Class Size

Min 6, Max 12

3.1.3 SoftX3000 (ATCA) Operation and Maintenance Training

Training Path

SoftX3000 (ATCA) Operation and Maintenance		
OAX60	Lecture, Lab, E-lab	9d

Target Audience

Operating and maintenance personnel, technical support personnel

Prerequisites

- Familiar with computer operation and Windows system
- A general understanding of telecommunications and data communications
- At least one year of experience in the operation and maintenance of telecommunications equipment

Objectives

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

- Describe the basic concepts, system architecture, services, networking and applications of NGN
- Outline the components, services, networking and applications of Huawei U-SYS solution
- Explain the functions, features, applications, terms, stack structure and messages of NGN protocols (MGCP, H.248, SIP and SIGTRAN)
- Describe the network topology, services, functions, system structure, board functions, board indicators, networking, applications and technical specifications of SoftX3000

- Outline the service data configuration steps of SoftX3000, and execute the common service data configuration (local office data configuration, charging data configuration, media gateway data configuration, MRS data configuration, protocol data configuration, SS7 signaling data configuration, routing data configuration, trunk data configuration, number analysis data configuration, subscriber data configuration)

- Perform the operation and maintenance of SoftX3000 (operator authority management, database backup and restoration, data consistent checking between the host and BAM, log management, alarm management, device management, media gateway management, protocol and signaling management, trunk circuit management, subscriber management, bill management, traffic statistics)

- Perform the routine operation and maintenance of iGWB

- Perform the common troubleshooting of SoftX3000

- Describe CGP product location, function and features.

- Perform CGP operation and maintenance

Duration

- 9 working days

Class Size

Min 6, Max 12

3.1.4 UMG8900 Operation and Maintenance Training

Training Path

UMG8900 Operation and Maintenance		
OAU01	Lecture, Lab, E-lab	4d

Target Audience

Operating and maintenance personnel, technical support personnel

Prerequisites

- Familiar with computer operation and Windows system
- A general understanding of telecommunications and data communications
- At least one year of experience in the operation and maintenance of telecommunications equipment

Objectives

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

- Describe the network topology, services,

functions, system structure, board functions, board indicators, networking, applications and technical specifications of UMG8900

- Outline the service data configuration steps of UMG8900, and execute the common service data configuration (MGW data configuration, IP bearer data configuration, TG data configuration, AG data configuration, SG data configuration)
- Perform the routine operation and maintenance of UMG8900 (database backup, log management, alarm management, device management, protocol tracing, service management, POTS subscriber testing)
- Perform the common troubleshooting of UMG8900

Duration

4 working days

Class Size

Min 6, Max 12

3.1.5 iManager N2000 UMS Operation and Maintenance Training

Training Path

iManager N2000 UMS Operation and Maintenance		
OAN01	Lecture, Lab, E-lab	2d

Target Audience

NMS operator, operating and maintenance personnel, technical support personnel

Prerequisites

- Familiar with computer operation and Windows system
- A general understanding of telecommunications and data communications
- At least one year of experience in the operation and maintenance of telecommunications equipment

Objectives

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

- Explain the functions and applications of SNMP
- Describe the network topology, services, functions, system structure, networking, applications and technical specifications of iManager N2000 UMS
- Perform the routine operation and maintenance of iManager N2000 UMS (network topology management, network element management, network alarm monitoring, network performance monitoring, environment and user right management)

Duration

2 working days

Class Size

Min 6, Max 12

3.1.6 MRS6100 Operation and Maintenance Training

Training Path

MRS6100 Operation and Maintenance		
OAM01	Lecture, Lab, E-lab	2d

Target Audience

Operating and maintenance personnel, technical support personnel

Prerequisites

- Familiar with computer operation and Windows system
- A general understanding of telecommunications and data communications
- At least one year of experience in the operation and maintenance of telecommunications equipment

Objectives

On completion of this program, the participants will

be able to:

- Describe the network topology, services, functions, system structure, board functions, board indicators, networking, applications and technical specifications of MRS6100
- Outline the service data configuration steps of MRS6100, and execute the system data configuration
- Perform the voice file loading
- Perform the routine operation and maintenance of MRS6100 (log management, alarm management, device management, message tracing)

Duration

2 working days

Class Size

Min 6, Max 12

3.1.7 SG7000 (NGN) Operation and Maintenance Training

Training Path

SG7000 (NGN) Operation and Maintenance		
OAS01	Lecture, Lab, E-lab	3d

Target Audience

Operating and maintenance personnel, technical support personnel

Prerequisites

- Familiar with computer operation and Windows system
- A general understanding of telecommunications and data communications
- At least one year of experience in the operation and maintenance of telecommunications equipment

Objectives

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

- Describe the network topology, services, functions, system structure, board functions, board indicators, networking, applications and technical specifications of SG7000
- Outline the service data configuration steps of SG7000, and execute the common service data configuration (local office data configuration, MTP data configuration, M3UA data configuration)
- Perform the routine operation and maintenance of SG7000 (database backup, log management, alarm management, device management, signaling tracing)
- Perform the common troubleshooting of SG7000

Duration

3 working days

Class Size

Min 6, Max 12

3.1.8 SHLR9200 Operation and Maintenance Training

Training Path

SHLR9200 Operation and Maintenance		
OAS03	Lecture, Lab, E-lab	2d

Target Audience

Operating and maintenance personnel, technical support personnel

Prerequisites

- Familiar with computer operation and Windows system
- A general understanding of telecommunications and data communications
- At least one year of experience in the operation and maintenance of telecommunications equipment

Objectives

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

- Describe the concepts, principle, networking, applications, services and service processing

procedure of NGN network intelligentizing

- Describe the network topology, services, functions, system structure, board functions, board indicators, signaling procedure, networking, applications and technical specifications of SHLR9200
- Outline the service data configuration steps of SHLR9200, and execute the common service data configuration (local office data configuration, MTP data configuration, SCCP data configuration, subscriber data configuration)
- Perform the routine operation and maintenance of SHLR9200 (log management, alarm management, device management, signaling tracing, service data management)

Duration

2 working days

Class Size

Min 6, Max 12

3.1.9 SE2000 Operation and Maintenance Training

Training Path

SE2000 Operation and Maintenance		
OAE01	Lecture, Lab, E-lab	2d

Target Audience

Operating and maintenance personnel, technical support personnel

Prerequisites

- Familiar with computer operation and Windows system
- A general understanding of telecommunications and data communications
- At least one year of experience in the operation and maintenance of telecommunications equipment

Objectives

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

- Explain the working principle of PROXY

- Describe the network topology, services, functions, system structure, networking, applications and technical specifications of SE2000 Series(SE2200/SE2300)
- Outline the service data configuration steps of SE2000 Series(SE2200/SE2300), and execute the common service data configuration (SNMP data configuration, signaling PROXY and media PROXY data configuration, IADMS PROXY data configuration)
- Perform the routine operation and maintenance of SE2000 Series(SE2200/SE2300) (log management, alarm management, device management, signaling proxy and media PROXY debugging, IADMS PROXY debugging)

Duration

2 working days

Class Size

Min 6, Max 12

3.1.10 UA5000 (NGN) Operation and Maintenance Training

Training Path

UA5000 (NGN) Operation and Maintenance		
OAG01	Lecture, Lab, E-lab	1d

Target Audience

Operating and maintenance personnel, technical support personnel

Prerequisites

- Familiar with computer operation and Windows system
- A general understanding of telecommunications and data communications
- At least one year of experience in the operation and maintenance of telecommunications equipment

Objectives

On completion of this program, the participants will

be able to:

- Describe the network topology, services, functions, system structure, board functions, board indicators, networking, applications and technical specifications of UA5000
- Outline the service data configuration steps of UA5000, and execute the common service data configuration (hardware data configuration, MG interface data configuration, POTS service data configuration)
- Perform the routine operation and maintenance of UA5000 (database backup, log management, alarm management, device management, subscriber testing)

Duration

1 working day

Class Size

Min 6, Max 12

3.1.11 IAD Operation and Maintenance Training

Training Path

IAD Operation and Maintenance		
OAI01	Lecture, Lab, E-lab	1d

Target Audience

Operating and maintenance personnel, technical support personnel

Prerequisites

- Familiar with computer operation and Windows system
- A general understanding of telecommunications and data communications
- At least one year of experience in the operation and maintenance of telecommunications equipment

Objectives

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

- Describe the network topology, product classification, services, functions, system structure, networking, applications and technical specifications of IAD
- Outline the service data configuration steps of IAD, and execute the common service data configuration (MG data configuration, subscriber data configuration)
- Perform the routine operation and maintenance of IAD (log management, alarm management, device management)

Duration

1 working day

Class Size

Min 6, Max 12

3.1.12 U-Path Operation and Maintenance Training

Training Path

U-Path Operation and Maintenance		
OAP01	Lecture, Lab, E-lab	1d

Target Audience

Operating and maintenance personnel, technical support personnel

Prerequisites

- Familiar with computer operation and Windows system
- A general understanding of telecommunications and data communications
- At least one year of experience in the operation and maintenance of telecommunications equipment

Objectives

On completion of this program, the participants will

be able to:

- Describe the network topology, services, functions, system structure, networking, applications and technical specifications of U-Path
- Perform the software installation of U-Path
- Perform the service configuration of U-Path
- Outline the related data configuration on SoftX3000 side
- Perform the routine operation and maintenance of U-Path (log management, system status browsing, and bill management)

Duration

1 working day

Class Size

Min 6, Max 12

3.1.13 SoftX3000 Advanced Operation and Maintenance Training

Training Path

SoftX3000 Advanced Operation and Maintenance		
OAX02	Lecture, Lab, E-lab	8d

Target Audience

Technical support personnel, technical specialist

Prerequisites

- Successful completion of the NGN Operation and Maintenance Training
- At least a half year of experience in the operation and maintenance of NGN

Objectives

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

- Explain the command parameters and call processing procedure of NGN protocols, and perform the common problem analysis and processing of NGN protocols
- Describe the working principle and service processing procedure of SoftX3000

- Execute the service data configuration of SoftX3000 (number changing data configuration, call barring data configuration)
- Perform the operation and maintenance of SoftX3000 (using of database tool, traffic statistics, system security and defense)
- Perform the troubleshooting of SoftX3000
- Describe the principle, processing procedure, operation and original bill format of NGN charging system, and describe the system structure and configuration of iGWB
- Describe the principle, application, data planning and data configuration of NGN dual home, and perform the routine maintenance of NGN dual home
- List the means of improving voice quality of NGN

Duration

8 working days

Class Size

Min 6, Max 12

3.1.14 UMG8900 Advanced Operation and Maintenance Training

Training Path

UMG8900 Advanced Operation and Maintenance		
OAU02	Lecture, Lab, E-lab	3d

Target Audience

Technical support personnel, technical specialist

Prerequisites

- Successful completion of the NGN Operation and Maintenance Training
- At least a half year of experience in the operation and maintenance of NGN

Objectives

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

- Describe the working principle and service processing procedure of UMG8900
- Execute the service data configuration of UMG8900 (PRI data configuration, R2 data configuration), and outline the related data configuration on SoftX3000 side
- Perform the operation and maintenance of UMG89000 (testing management, performance statistics, using of software tool)
- Perform the troubleshooting of UMG8900

Duration

3 working days

Class Size

Min 6, Max 12

3.1.15 iManager N2000 UMS Advanced Operation and Maintenance Training

Training Path

iManager N2000 UMS Advanced Operation and Maintenance		
OAN02	Lecture, Lab, E-lab	2d

Target Audience

Technical support personnel, technical specialist

Prerequisites

- Successful completion of the NGN Operation and Maintenance Training
- At least a half year of experience in the operation and maintenance of NGN

Objectives

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

- Perform the operation and maintenance of

iManager N2000 UMS (test management, authority and domain based management, subscriber service provisioning, OSS interconnection)

- Perform the system administration of iManager N2000 UMS (user accounts management, UMS user management, log management, service and process management, database management, file and disk management, database backup and restoration)
- Perform the troubleshooting of iManager N2000 UMS

Duration

2 working days

Class Size

Min 6, Max 12

3.1.16 MRS6100 Advanced Operation and Maintenance Training

Training Path

MRS6100 Advanced Operation and Maintenance		
OAM02	Lecture, Lab, E-lab	1d

Target Audience

Technical support personnel, technical specialist

Prerequisites

- Successful completion of the NGN Operation and Maintenance Training
- At least a half year of experience in the operation and maintenance of NGN

Objectives

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

- Describe the working principle, announcement principle and service processing procedure of MRS6100
- Perform the language conversion of voice
- Perform the voice conversion and voice loading
- Perform the troubleshooting of MRS6100

Duration

1 working day

Class Size

Min 6, Max 12

3.1.17 SG7000 (NGN) Advanced Operation and Maintenance Training

Training Path

SG7000 (NGN) Advanced Operation and Maintenance		
OAS02	Lecture, Lab, E-lab	2d

Target Audience

Technical support personnel, technical specialist

Prerequisites

- Successful completion of the NGN Operation and Maintenance Training
- At least a half year of experience in the operation and maintenance of NGN

Objectives

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

- Execute the service data configuration of SG7000 (MTP load sharing data configuration, SCCP load sharing data configuration)
- Perform the troubleshooting of SG7000

Duration

2 working days

Class Size

Min 6, Max 12

3.1.18 SHLR9200 Advanced Operation and Maintenance Training

Training Path

SHLR9200 Advanced Operation and Maintenance		
OAS04	Lecture, Lab, E-lab	1d

Target Audience

Technical support personnel, technical specialist

Prerequisites

- Successful completion of the NGN Operation and Maintenance Training
- At least a half year of experience in the operation and maintenance of NGN

Objectives

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

- Explain the stack structure, functions, messages and applications of MAP+
- Execute the custom-made service data configuration of SHLR9200
- Perform the troubleshooting of SHLR9200

Duration

1 working day

Class Size

Min 6, Max 12

3.1.19 SE2000 Advanced Operation and Maintenance Training

Training Path

SE2000 Advanced Operation and Maintenance		
OAE02	Lecture, Lab, E-lab	2d

Target Audience

Technical support personnel, technical specialist

Prerequisites

- Successful completion of the NGN Operation and Maintenance Training
- At least a half year of experience in the operation and maintenance of NGN

Objectives

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

- Describe the working principle, security, QoS and reliability of SE2000 Series(SE2200/SE2300)
- Execute the service data configuration of SE2000 Series(SE2200/SE2300) (security data configuration, QoS data configuration, reliability data configuration)
- Perform the troubleshooting of SE2000 Series(SE2200/SE2300)

Duration

2 working days

Class Size

Min 6, Max 12

3.1.20 UA5000 (NGN) Advanced Operation and Maintenance Training

Training Path

UA5000 (NGN) Advanced Operation and Maintenance		
OAG02	Lecture, Lab, E-lab	1d

Target Audience

Technical support personnel, technical specialist

Prerequisites

- Successful completion of the NGN Operation and Maintenance Training
- At least a half year of experience in the operation and maintenance of NGN

Objectives

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

- Describe the working principle of UA5000
- Perform the operation and maintenance of UA5000 (system maintenance, DSP resources maintenance)
- Perform the troubleshooting of UA5000

Duration

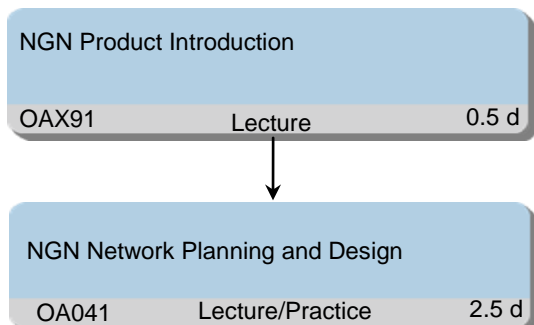
1 working day

Class Size

Min 6, Max 12

3.1.21 NGN Network Planning and Design Training (CPCI)

Training Path



Target Audience

Technical support personnel, technical specialist

Prerequisites

- Familiar with computer operation and Windows system
- A general understanding of telecommunications and data communications
- At least one year of experience in the operation and maintenance of telecommunications equipment.

Objectives

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

- The definition, background and development of NGN, The architecture of NGN system, and the functions, current elements, features of each layer
- Describe NGN network Planning Procedure: Network Planning (NP)/High Level Design (HLD)/Low Level Design (LLD)/Deployment Design (DD)
- Describe the approach, policy and general principle of NGN planning such as: the necessary information, the principle of SS domain division, the principle of each key component setting and consideration of evolution; Resource planning such as number, IP address, traffic.
- Describe the basic knowledge such as traffic model, commonly used signaling/protocol in NGN System.
- Describe Capacity dimension of SoftX/UMG/SE2300/N2000

Duration

3 working days

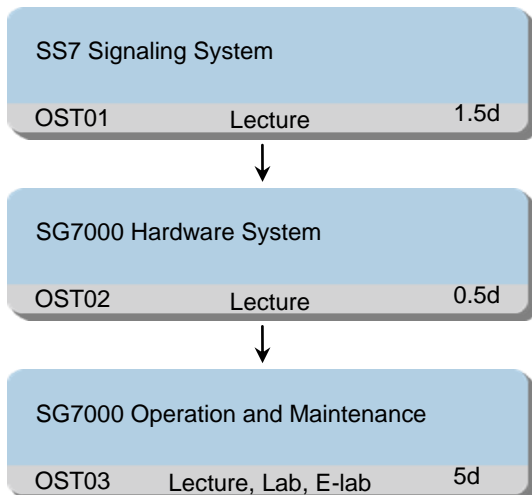
Class Size

Min 6, Max 12

3.2 STP(SG7000) Training Programs

3.2.1 STP(SG7000) Operation and Maintenance Training

Training Path



Target Audience

Personnel who maintain STP equipment

Prerequisites

- At least one year of experience in the operation or maintenance of STP or other switch equipment
- Being familiar with computer operation

Objectives

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

- Describe the basic concepts of SS7 Signaling System

- Describe the architecture of SS7 Signaling System
- State the format of TUP, ISUP and SCCP message and the meaning of the message which are often used
- State the signaling procedures of TUP, ISUP and SCCP
- Trace and analyze the signaling message
- Describe SG7000 system structure and hardware architecture
- State the cabinet, frame, board and the performance features of SG7000
- Describe SG7000 logical architecture and signaling flow
- Describe the terminal and alarm system of SG7000
- Configure the hardware data and service data
- Implement the common operation of maintenance such as message tracing and link management
- Describe the MNP service flows
- Configure the MNP data

Duration

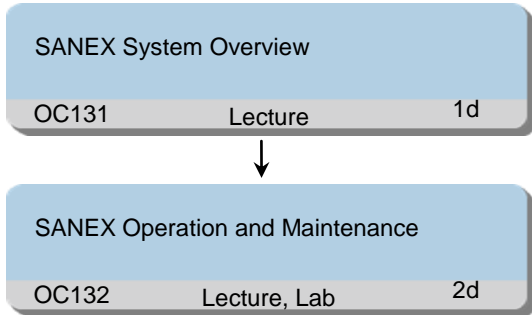
7 working days

Class Size

Min 6, Max 12

3.2.2 SANEX Operation and Maintenance Training

Training Path



- Outline the function and structure of rack, subrack and boards of DSS
- Describe the power system and cable connection of DSS
- Outline the structure of SANEX software
- Perform the SHELL operation
- Create the SHELL task
- Perform the basic operation of DSS system
- Perform the routine maintenance of DSS system
- Perform the operation of alarm console, performance, trace Console, and integrated analysis console

Target Audience

Personnel who maintain SANEX equipment

Prerequisites

- At least one year of experience in the operation or maintenance of STP or other switch equipment
- Being familiar with computer operation

Objectives

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

Duration

3 working days

Class Size

Min 6, Max 12

3.3 SPS V3 Training Programs

3.3.1 SPS V3 Fundamental Training

Training Path

SPS V3 Fundamental		
OAS07	Lecture, Lab, E-lab	2d

Target Audience

Operating and maintenance engineer, Technical support engineer

Prerequisites

- Being familiar with computer operation
- At least one year of experience in operation and maintenance of telecom field
- General understanding of telecommunications and data communications

Objectives

On completion of this program, the participants will

be able to:

- Describe the SPS V3 product location, typical application, network structure, the basic function and features
- Describe the system architecture of SPS, including the hardware structure, software structure
- Perform SPS V3 routine operation and maintenance, including the routine maintenance tasks, routine maintenance commands, logs and alarm checking

Duration

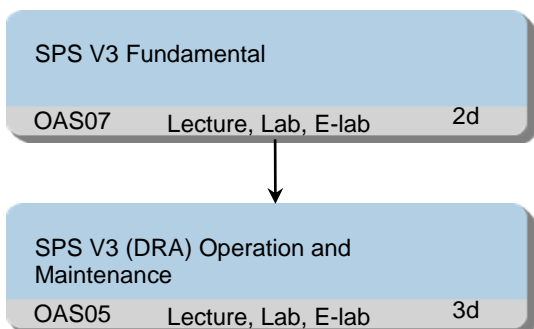
2 working days

Class Size

Min 6, Max 12

3.3.2 SPS V3 (DRA) Operation and Maintenance Training

Training Path



Target Audience

Operating and maintenance engineer, Technical support engineer

Prerequisites

- Being familiar with computer operation
- At least one year of experience in operation and maintenance of telecom field
- General understanding of telecommunications and data communications

Objectives

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

- Describe Diameter basic protocol
- Explain the DRA protocols and interfaces
- Describe the DRA data configuration flows
- Perform the DRA data configuration, including the hardware data configuration, basic data configuration, signaling interworking data configuration, function and feature data configuration
- Perform DRA Troubleshooting

Duration

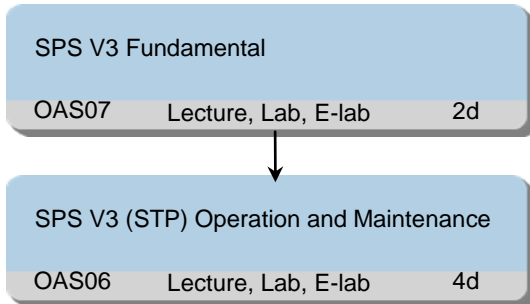
3 working days

Class Size

Min 6, Max 12

3.3.3 SPS V3 (STP) Operation and Maintenance Training

Training Path



Target Audience

Operating and maintenance engineer, Technical support engineer

Prerequisites

- Being familiar with computer operation
- At least one year of experience in operation and maintenance of telecom field
- General understanding of telecommunications and data communications

Objectives

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

- Describe the SIGTRAN Signaling System.
- Describe the SCCP Signaling System.
- Perform the SPS V3(STP) data configuration, including the hardware data configuration, basic data configuration, signaling interworking data configuration, function and feature data configuration
- Describe the MNP service flows, and configure the MNP data.
- Perform STP Troubleshooting

Duration

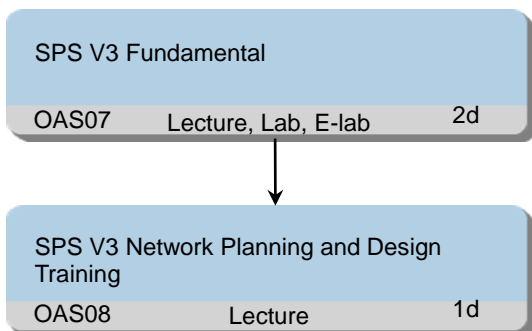
4 working days

Class Size

Min 6, Max 12

3.3.4 SPS V3 Network Planning and Design Training

Training Path



Target Audience

Network Planning and Design engineer

Prerequisites

- Being familiar with computer operation
- At least one year of experience in operation and maintenance of telecom field
- General understanding of telecommunications and data communications

Objectives

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

- Describe the networking planning principle
- Describe the naming and numbering rule
- Design the network interworking and routing
- Design the redundancy
- Design the IP interconnection
- Signaling Bandwidth Calculation Principles
- O&M Bandwidth Calculation Principles

Duration

1 working days

Class Size

Min 6, Max 12