



Customer Training Catalog Training Programs IBS and Small Cell Product Technical Training



HUAWEI
HUAWEI Learning Service
2015



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1 Training Path

O&M Engineer	RNP/RNO Engineer								
<table border="1"> <tr> <td colspan="2">LTE eRAN3.0/6.0/7.0 Micro BTS Operation and Maintenance Training</td> </tr> <tr> <td>ILT</td> <td>3D</td> </tr> </table>	LTE eRAN3.0/6.0/7.0 Micro BTS Operation and Maintenance Training		ILT	3D	<table border="1"> <tr> <td colspan="2">WCDMA Micro BTS Network Planning & Optimization Training</td> </tr> <tr> <td>ILT</td> <td>1D</td> </tr> </table>	WCDMA Micro BTS Network Planning & Optimization Training		ILT	1D
LTE eRAN3.0/6.0/7.0 Micro BTS Operation and Maintenance Training									
ILT	3D								
WCDMA Micro BTS Network Planning & Optimization Training									
ILT	1D								
<table border="1"> <tr> <td colspan="2">WCDMA RAN14.0/15.0/16.0 Micro BTS Operation and Maintenance</td> </tr> <tr> <td>ILT</td> <td>3D</td> </tr> </table>	WCDMA RAN14.0/15.0/16.0 Micro BTS Operation and Maintenance		ILT	3D	<table border="1"> <tr> <td colspan="2">LTE Micro BTS Network Planning & Optimization Training</td> </tr> <tr> <td>ILT</td> <td>1D</td> </tr> </table>	LTE Micro BTS Network Planning & Optimization Training		ILT	1D
WCDMA RAN14.0/15.0/16.0 Micro BTS Operation and Maintenance									
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LTE eRAN6.0/7.0 Lampsite Operation and Maintenance Training									
ILT	3D								
Lampsite Planning and Design Training									
ILT	1D								
<table border="1"> <tr> <td colspan="2">WCDMA RAN15.0/16.0 Lampsite Operation and Maintenance Training</td> </tr> <tr> <td>ILT</td> <td>3D</td> </tr> </table>	WCDMA RAN15.0/16.0 Lampsite Operation and Maintenance Training		ILT	3D	<table border="1"> <tr> <td colspan="2">SingleDAS Planning & Design Training</td> </tr> <tr> <td>ILT</td> <td>1D</td> </tr> </table>	SingleDAS Planning & Design Training		ILT	1D
WCDMA RAN15.0/16.0 Lampsite Operation and Maintenance Training									
ILT	3D								
SingleDAS Planning & Design Training									
ILT	1D								
<table border="1"> <tr> <td colspan="2">WCDMA/LTE SRAN8.0/9.0 Lampsite Operation and Maintenance Training</td> </tr> <tr> <td>ILT</td> <td>3D</td> </tr> </table>	WCDMA/LTE SRAN8.0/9.0 Lampsite Operation and Maintenance Training		ILT	3D	<table border="1"> <tr> <td colspan="2">Wireless Network Indoor Coverage Planning and optimization Training</td> </tr> <tr> <td>ILT</td> <td>5D</td> </tr> </table>	Wireless Network Indoor Coverage Planning and optimization Training		ILT	5D
WCDMA/LTE SRAN8.0/9.0 Lampsite Operation and Maintenance Training									
ILT	3D								
Wireless Network Indoor Coverage Planning and optimization Training									
ILT	5D								
<table border="1"> <tr> <td colspan="2">DBS3900 IBS Operation and Maintenance Training</td> </tr> <tr> <td>ILT</td> <td>3D</td> </tr> </table>	DBS3900 IBS Operation and Maintenance Training		ILT	3D	<table border="1"> <tr> <td colspan="2">WCDMA Indoor Coverage Training</td> </tr> <tr> <td>ILT</td> <td>2D</td> </tr> </table>	WCDMA Indoor Coverage Training		ILT	2D
DBS3900 IBS Operation and Maintenance Training									
ILT	3D								
WCDMA Indoor Coverage Training									
ILT	2D								
	<table border="1"> <tr> <td colspan="2">LTE Indoor Coverage Training</td> </tr> <tr> <td>ILT</td> <td>2D</td> </tr> </table>	LTE Indoor Coverage Training		ILT	2D				
LTE Indoor Coverage Training									
ILT	2D								

1.1 IBS Training Path

1.2 Micro BTS Training Path

1.3 Lampsite Training Path

1.4 DBS3900 IBS Training Path

2 Training Programs

IBS and Small Cell Product Technical Training Programs are designed as follows:

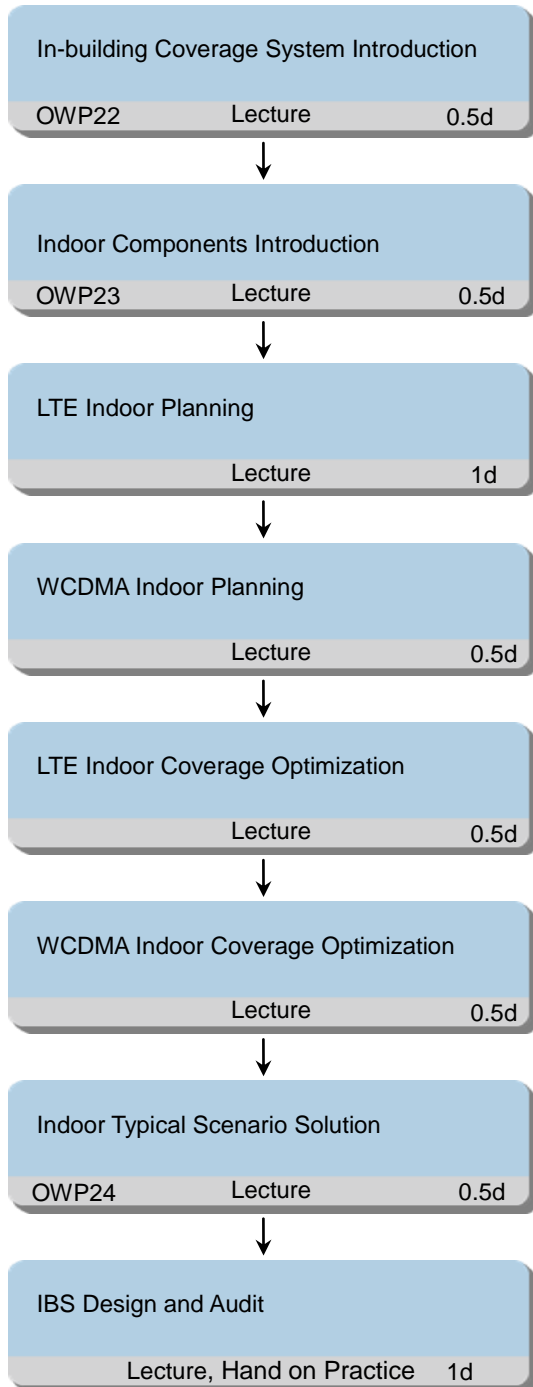
Training Programs	Level	Duration (working days)	Training Location	Class Size
IBS				
Wireless Network Indoor Coverage Planning and optimization Training	III	5		6 ~ 16
WCDMA Indoor Coverage Training	III	2		6 ~ 16
LTE Indoor Coverage Training	III	2		6 ~ 16
Micro BTS				
WCDMA RAN16.0 Micro BTS Operation and Maintenance Training	II	3		6 ~ 16
WCDMA RAN16.0 Micro BTS Network Planning and Optimization Training	II	1		6 ~ 16
LTE eRAN7.0 Micro BTS Product Technical Training	II	3		6 ~ 16
LTE eRAN7.0 Micro BTS Network Planning and Optimization Training	II	1		6 ~ 16
WCDMA RAN15.0 Micro BTS Operation and Maintenance Training	II	3		6 ~ 16
WCDMA RAN15.0 Micro BTS Network Planning and Optimization Training	II	1		6 ~ 16
LTE eRAN6.0 Micro BTS Product Technical Training	II	3		6 ~ 16
LTE eRAN6.0 Micro BTS Network Planning and Optimization Training	II	1		6 ~ 16
LTE eRAN3.0 Micro BTS Product Technical Training	II	3		6 ~ 12

WCDMA RAN14.0 Micro BTS Operation and Maintenance Training	II	3		6 ~ 12
Lampsite				
UMTS/LTE SRAN9.0 Lampsite Operation and Maintenance Training	II	3		6 ~ 16
WCDMA RAN16.0 Lampsite Operation and Maintenance Training	II	3		6 ~ 16
LTE eRAN7.0 Lampsite Operation and Maintenance Training	II	3		6 ~ 16
UMTS<E SRAN8.0 Lampsite Operation and Maintenance Training	II	3		6 ~ 16
WCDMA RAN15.0 Lampsite Operation and Maintenance Training	II	3		6 ~ 16
LTE eRAN6.0 Lampsite Operation and Maintenance Training	II	3		6 ~ 16
Lampsite Planning and Design Training	II	1		6 ~ 16
DBS3900 IBS				
DBS3900 IBS Operation and Maintenance Training	II	3		6 ~ 12
DBS3900 IBS Planning & Design Training	II	1		6 ~ 12

2.1 IBS Training Programs

2.1.1 Wireless Network Indoor Coverage Planning and optimization Training

Training Path



Target Audience

Planning Engineers

System Technicians

System Engineers

Prerequisites

- Basic knowledge of mobile communications.
- At least 1 year working experience in wireless network

Objectives

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

- Describe the structure of indoor coverage
- Describe the functions of common components for indoor coverage
- Describe the functions of repeaters
- Describe the method of LTE indoor capacity planning
- Describe the method of WCDMA indoor capacity planning
- Describe the method of LTE indoor coverage planning
- Describe the method of WCDMA indoor coverage planning
- Describe the method of LTE indoor transmission planning
- Describe the method of WCDMA indoor transmission planning
- Describe the method of LTE indoor coverage optimization
- Describe the method of WCDMA indoor coverage optimization
- Describe the method of indoor and outdoor inter-operation
- Describe the stadium coverage solution
- Describe the metro coverage solution
- Describe the airport coverage solution
- Describe the resident location coverage solution

- Describe the commercial building coverage solution
- Describe the campus coverage solution
- Describe the indoor system design process and key points

Duration

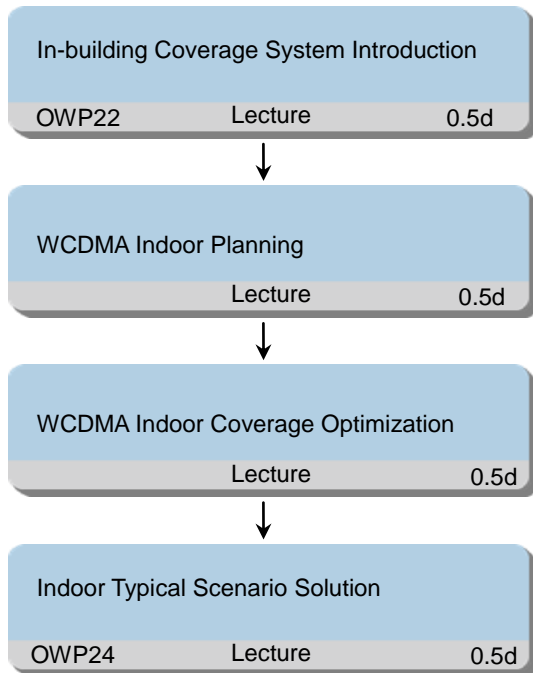
5 working days

Class Size

Min 6, Max 16

2.1.2 WCDMA Indoor Coverage Training

Training Path



Target Audience

Planning Engineers
System Technicians
System Engineers

Prerequisites

- Basic knowledge of mobile communications.
- At least 1 year working experience in wireless network

Objectives

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

- Describe the structure of indoor coverage
- Describe the method of WCDMA indoor capacity planning
- Describe the method of WCDMA indoor coverage planning
- Describe the method of WCDMA indoor transmission planning
- Describe the method of WCDMA indoor coverage optimization
- Describe the method of indoor and outdoor inter-operation
- Describe the stadium coverage solution
- Describe the metro coverage solution
- Describe the airport coverage solution
- Describe the resident location coverage solution
- Describe the commercial building coverage solution
- Describe the campus coverage solution

Duration

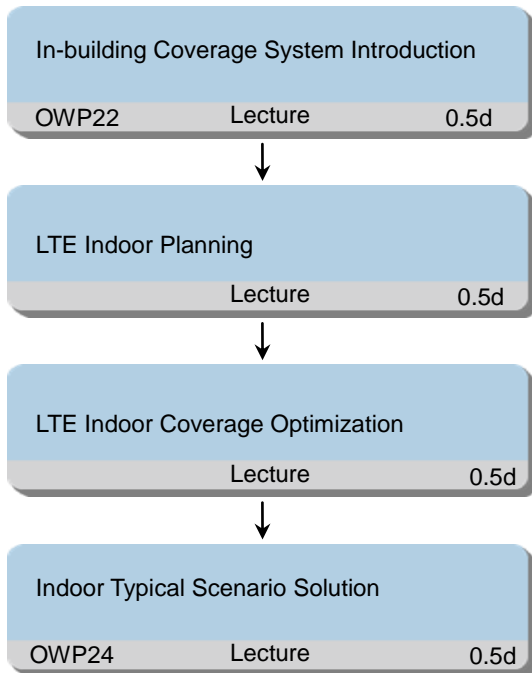
2 working days

Class Size

Min 6, Max 1

2.1.3 LTE Indoor Coverage Training

Training Path



Target Audience

Planning Engineers
System Technicians
System Engineers

Prerequisites

- Basic knowledge of mobile communications.
- At least 1 year working experience in wireless network

Objectives

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

- Describe the structure of indoor coverage
- Describe the method of LTE indoor capacity planning
- Describe the method of LTE indoor coverage planning
- Describe the method of LTE indoor transmission planning
- Describe the method of LTE indoor coverage optimization
- Describe the method of indoor and outdoor inter-operation
- Describe the stadium coverage solution
- Describe the metro coverage solution
- Describe the airport coverage solution
- Describe the resident location coverage solution
- Describe the commercial building coverage solution
- Describe the campus coverage solution

Duration

2 working days

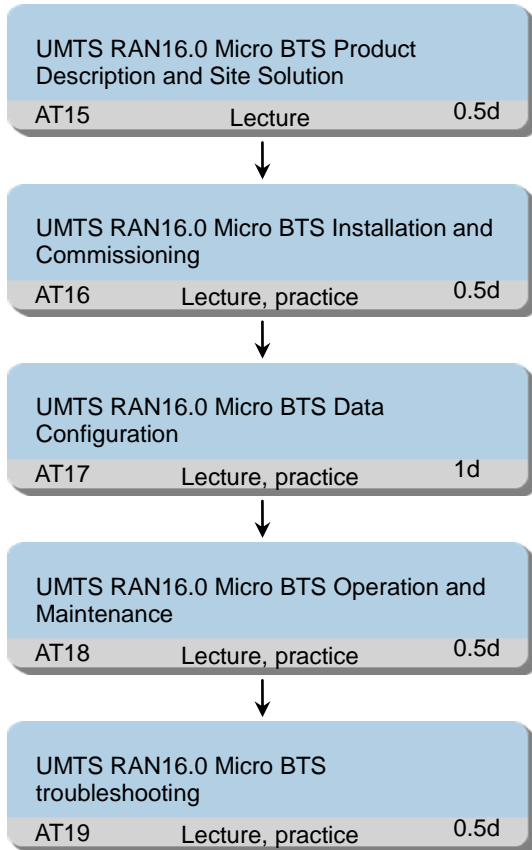
Class Size

Min 6, Max 1

2.2 Micro BTS Training Programs

2.2.1 WCDMA RAN16.0 Micro BTS Operation and Maintenance Training

Training Path



Target Audience

Field Technician
Network Deployment Engineer
RAN OM Engineer

Prerequisites

- Basic knowledge of mobile communications. At least 1 year working experience in wireless network

Objectives

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

- Provide UMTS RAN16.0 Micro BTS Micro BTS3902E and BTS3803E Product description, installation
- Commissioning, data configuration, operation and maintenance and troubleshooting training.

Duration

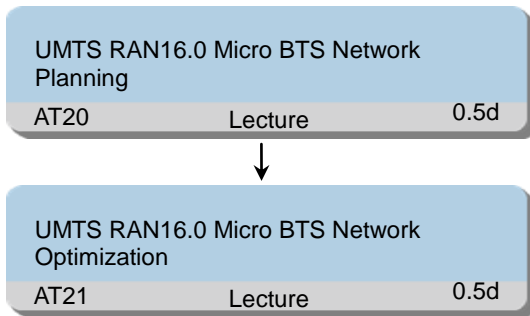
3 working days

Class Size

Min 6, Max 16

2.2.2 WCDMA RAN16.0 Micro BTS Network Planning and Optimization Training

Training Path



Target Audience

UMTS Network Design Engineer
Network Planning Engineer
Network Optimization Engineer

Prerequisites

Successful completion of the following courses:
WCDMA System Overview

Objectives

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

- Provide UMTS RAN16.0 Micro BTS Micro BTS network planning and optimization training.

Duration

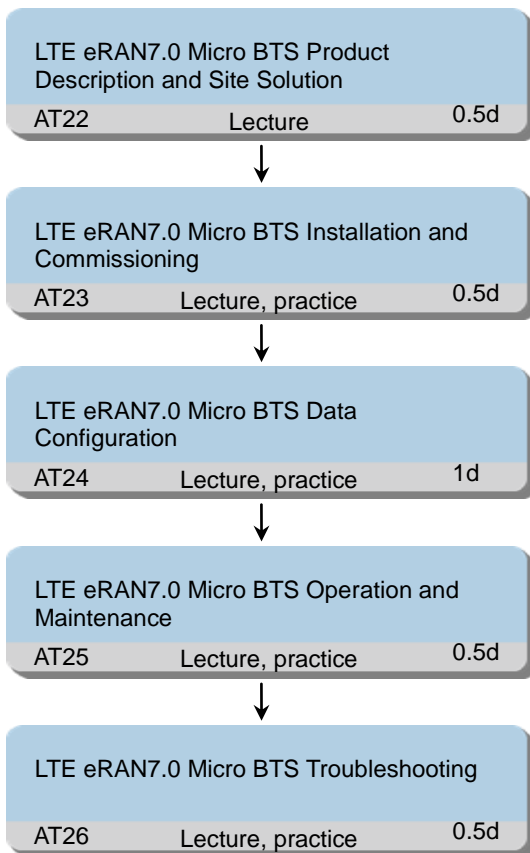
1 working day

Class Size

Min 6, Max 16

2.2.3 LTE eRAN7.0 Micro BTS Product Technical Training

Training Path



Target Audience

Field Technician
Network Deployment Engineer
eRAN OM Engineer

Prerequisites

Basic knowledge of mobile communications. At least 1 year working experience in wireless network

Objectives

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

- Provide LTE eRAN7.0 Micro BTS MicroBTS3202E and BTS3203E Product description, installation
- Commissioning, data configuration, operation and maintenance and troubleshooting training.

Duration

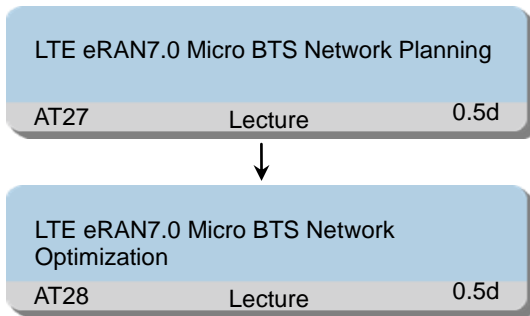
3 working days

Class Size

Min 6, Max 16

2.2.4 LTE eRAN7.0 Micro BTS Network Planning and Optimization Training

Training Path



Target Audience

LTE Network Design Engineer
Network Planning Engineer
Network Optimization Engineer

Prerequisites

Successful completion of the following courses:
LTE System Overview

Objectives

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

- Provide LTE eRAN7.0 Micro BTS network planning and optimization training.

Duration

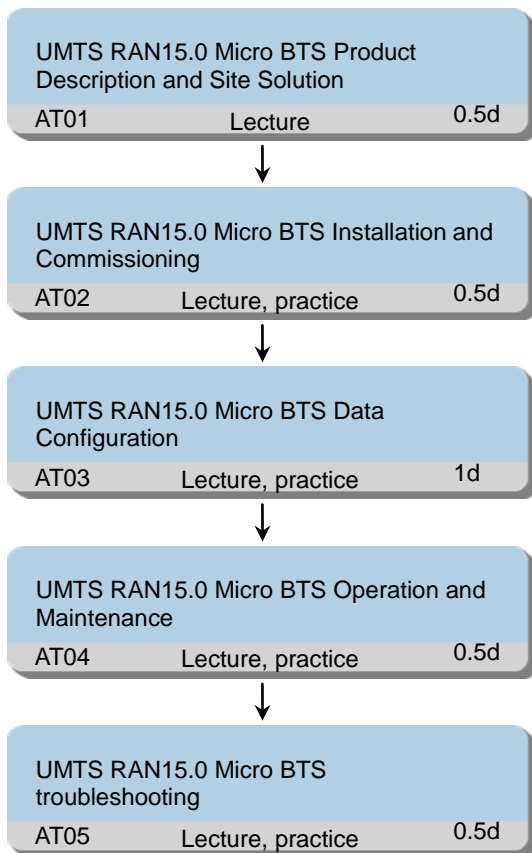
1 working day

Class Size

Min 6, Max 16

2.2.5 WCDMA RAN15.0 Micro BTS Operation and Maintenance Training

Training Path



Target Audience

Field Technician
Network Deployment Engineer
RAN OM Engineer

Prerequisites

- Basic knowledge of mobile communications. At least 1 year working experience in wireless network

Objectives

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

- Provide UMTS RAN15.0 Micro BTS Micro BTS3902E and BTS3803E Product description, installation
- Commissioning, data configuration, operation and maintenance and troubleshooting training.

Duration

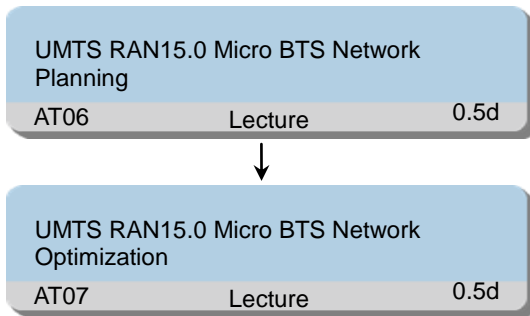
3 working days

Class Size

Min 6, Max 16

2.2.6 WCDMA RAN15.0 Micro BTS Network Planning and Optimization Training

Training Path



Target Audience

UMTS Network Design Engineer
Network Planning Engineer
Network Optimization Engineer

Prerequisites

Successful completion of the following courses:
WCDMA System Overview

Objectives

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

- Provide UMTS RAN15.0 Micro BTS Micro BTS network planning and optimization training.

Duration

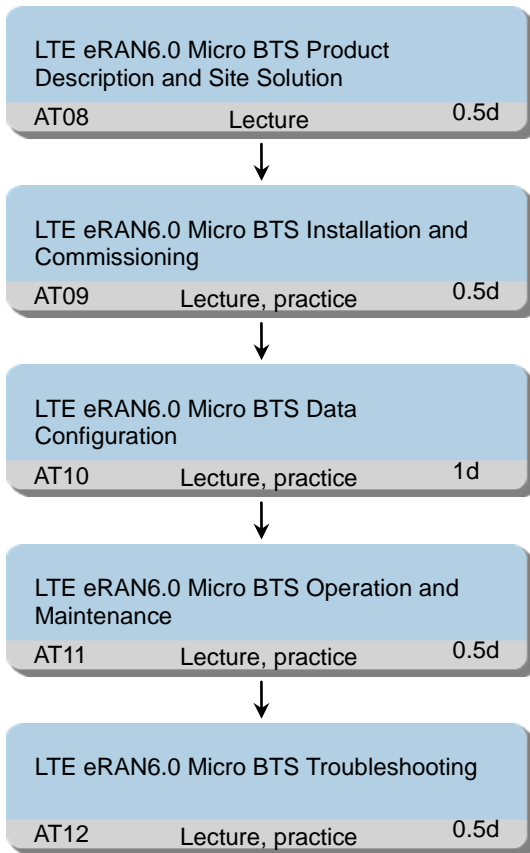
1 working day

Class Size

Min 6, Max 16

2.2.7 LTE eRAN6.0 Micro BTS Product Technical Training

Training Path



Target Audience

Field Technician
Network Deployment Engineer
eRAN OM Engineer

Prerequisites

Basic knowledge of mobile communications. At least 1 year working experience in wireless network

Objectives

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

- Provide LTE eRAN6.0 Micro BTS MicroBTS3202E and BTS3203E Product description, installation
- Commissioning, data configuration, operation and maintenance and troubleshooting training.

Duration

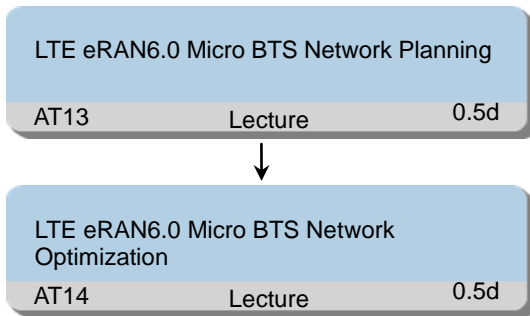
3 working days

Class Size

Min 6, Max 16

2.2.8 LTE eRAN6.0 Micro BTS Network Planning and Optimization Training

Training Path



Target Audience

LTE Network Design Engineer
Network Planning Engineer
Network Optimization Engineer

Prerequisites

Successful completion of the following courses:
LTE System Overview

Objectives

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

- Provide LTE eRAN6.0 Micro BTS network planning and optimization training.

Duration

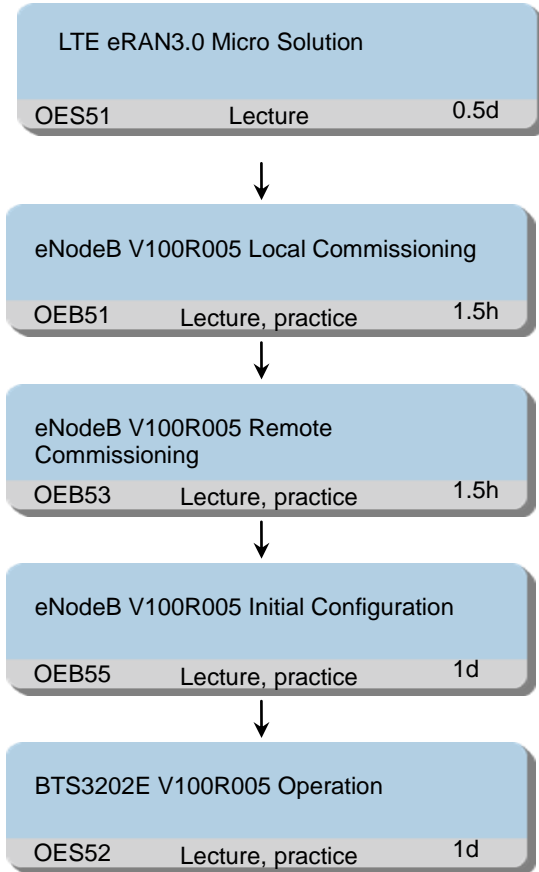
1 working day

Class Size

Min 6, Max 16

2.2.9 LTE eRAN3.0 Micro BTS Product Technical Training

Training Path



Target Audience

System Engineer
Service Engineer
Service Planning Engineer
Service Design Engineer

Prerequisites

Basic knowledge of mobile communications
At least 1 year working experience in wireless network operation and maintenance

Objectives

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

- Explain Huawei Micro BTS solution
- Describe Micro BTS LTE base station hardware structure

- Explain the architecture and components of eNodeB operation and maintenance system
- Use LMT login Micro BTS LTE base station
- Use M2000 client Login M2000 server and Micro BTS LTE base station
- Execute MML in single mode
- Execute MML in batch mode
- Manage alarms of Micro BTS LTE base station
- Manage software, such as querying current software version and backup configuration file
- Manage transport data, such as querying IP address of Ethernet port and querying IP route
- Manage radio data, such as querying cell states and querying neighbor cell
- Manage tracing message, for example: creating a tracing task, checking tracing result, saving results
- Outline the procedure of Micro BTS LTE base station data configuration
- Use LTE Configuration System to create project
- Use LTE Configuration System to import external template
- Use LTE Configuration System to query data configuration and modify data
- Use LTE Configuration System to check up data
- Use LTE Configuration System to export data
- Describe the procedure of BTS3202E commissioning
- Querying the current version of Micro BTS LTE base station
- Commission the Micro BTS LTE base station through M2000
- Verify commissioning result
- Use LMT login BTS3202E
- Use M2000 client Login M2000 server and BTS3202E
- Execute MML in single mode
- Execute MML in batch mode
- Manage alarms of BTS3202E

- Manage software, such as querying current software version and backup configuration file
- Manage transport data, such as querying IP address of Ethernet port and querying IP route
- Manage radio data, such as querying cell states and querying neighbor cell
- Manage tracing message, for example: creating a tracing task, checking tracing result, saving results
- Outline the procedure of BTS3202E data configuration
- Use LTE Configuration System to create project
- Use LTE Configuration System to import external template
- Use LTE Configuration System to query data configuration and modify data
- Use LTE Configuration System to check up data
- Use LTE Configuration System to export data
- Describe the procedure of BTS3202E commissioning
- Querying the current version of BTS3202E
- Commission the BTS3202E through M2000
- Verify commissioning result
- Outline the procedure of eNodeB data configuration
- Describe the main table of "eNodeB Summary Data"
- Use LTE Configuration System to create

project

- Use LTE Configuration System to import external template
- Use LTE Configuration System to query data configuration and modify data
- Use LTE Configuration System to check up data
- Use LTE Configuration System to export data
- Describe the procedure of eNodeB commissioning
- Describe the related concept of eNodeB software and configuration file
- Querying the current version of eNodeB
- Use USB disk to commission the eNodeB
- Commission the eNodeB through LMT
- Verify commissioning result
- Describe the procedure of eNodeB commissioning
- Describe the related concept of eNodeB software and configuration file
- Querying the current version of eNodeB
- Commission the eNodeB through M2000
- Verify commissioning result

Duration

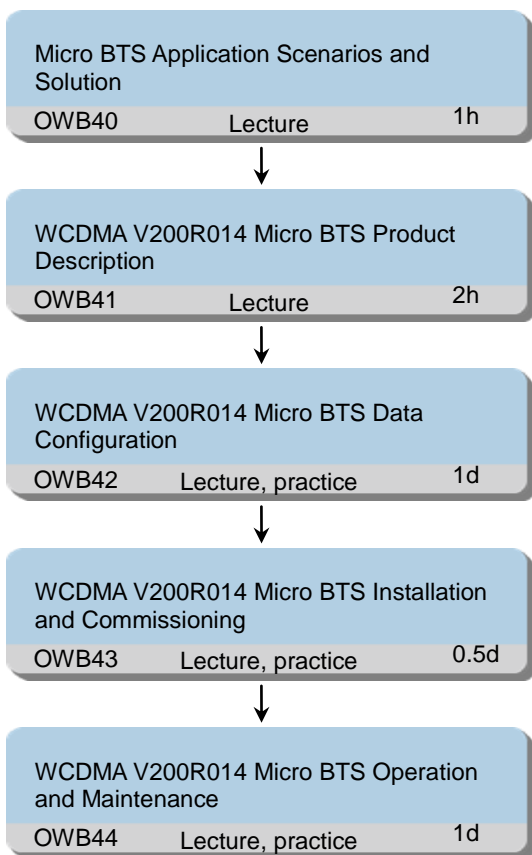
3 working days

Class Size

Min 6, Max 12

2.2.10 WCDMA RAN14.0 Micro BTS Operation and Maintenance Training

Training Path



Target Audience

Field engineer
System engineer
Site maintainer

Prerequisites

Basic knowledge of mobile communications
At least 1 year working experience in WCDMA wireless network operation and maintenance

Objectives

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

- Describe Micro BTS application scenarios
- Outline Micro BTS solutions and benefit

- Describe the hardware structure of BTS3902E/BTS3803E
- Detail the functions of the components of BTS3902E/BTS3803E
- Make a comparison between BTS3902E and BTS3803E
- Provide a detail procedure on how to configure the data base on CME
- Provide a way to configure sites in batch base on CME
- Guide the procedure on how to install the BTS3803E correctly
- Perform NodeB commissioning based on M2000 (PnP)
- Perform NodeB commissioning based on TF card+M2000
- Perform NodeB commissioning based on LMT+M2000
- Node B Automatic deployment
- Grasp alarm operation by M2000
- Perform BTS Device maintenance
- Grasp the operation of Transport connectivity and performance Test
- Grasp check of Transport Link
- Perform operation of Carrier Resource CELL
- Grasp the operation of BTS Tracing Management
- Grasp the operation of BTS Monitoring Management
- Perform Right, log and License Management

Duration

3 working days

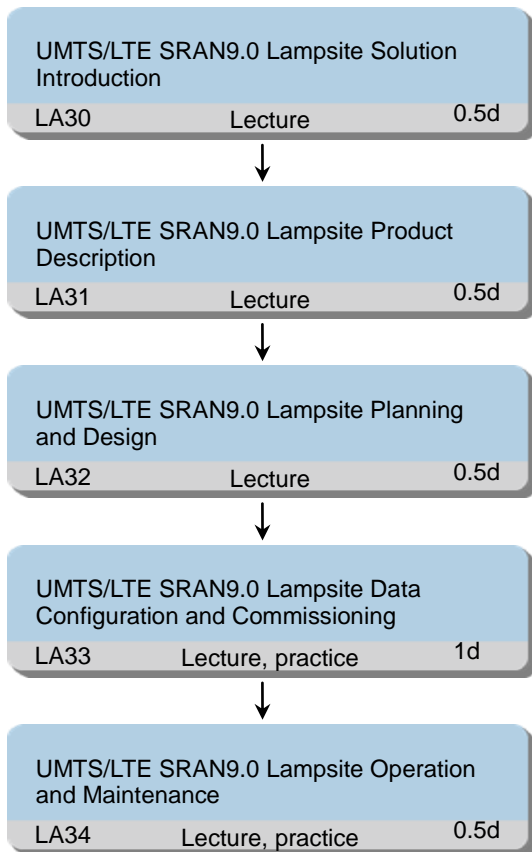
Class Size

Min 6, Max 12

2.3 Lampsite Training Programs

2.3.1 UMTS/LTE SRAN9.0 Lampsite Operation and Maintenance Training

Training Path



Target Audience

Field Technician
Network Deployment Engineer
RAN OM Engineer

Prerequisites

- Basic knowledge of mobile communications. At least 1 year working experience in wireless network

Objectives

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

- Provide UMTS
- LTE SRAN9.0 Lampsite Product description, installation
- Commissioning, data configuration, operation and maintenance training.

Duration

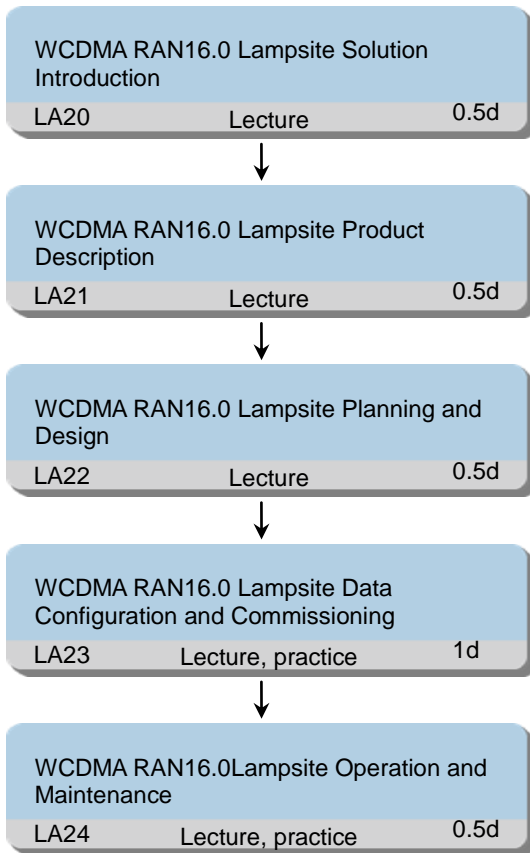
3 working days

Class Size

Min 6, Max 16

2.3.2 WCDMA RAN16.0 Lampsite Operation and Maintenance Training

Training Path



Target Audience

Field Technician
 Network Deployment Engineer
 RAN O
 M Engineer

Prerequisites

Basic knowledge of mobile communications. At least 1 year working experience in wireless network

Objectives

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

- Provide WCDMA RAN16.0 Lampsite Product description, installation
- Commissioning, data configuration, operation and maintenance training.

Duration

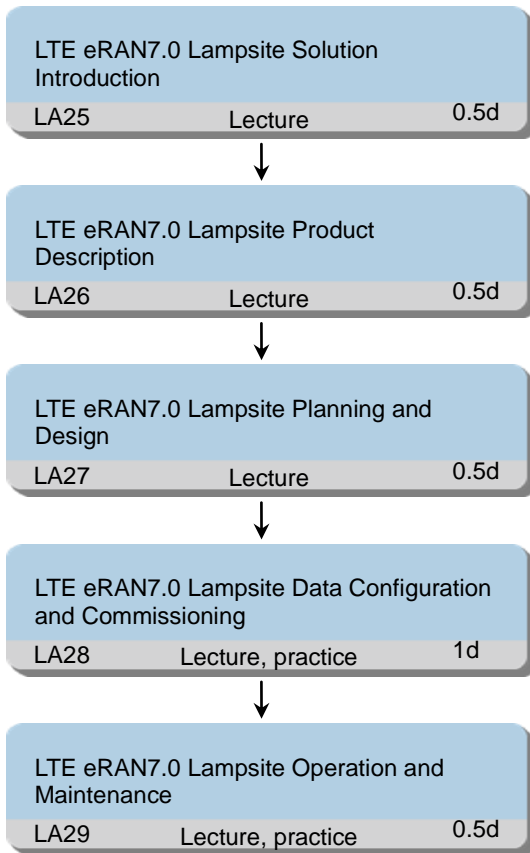
3 working days

Class Size

Min 6, Max 16

2.3.3 LTE eRAN7.0 Lampsite Operation and Maintenance Training

Training Path



Target Audience

Field Technician
 Network Deployment Engineer
 RAN O
 M Engineer

Prerequisites

Basic knowledge of mobile communications. At least 1 year working experience in wireless network

Objectives

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

- Provide LTE eRAN7.0 Lampsite Product description, installation
- Commissioning, data configuration, operation and maintenance training.

Duration

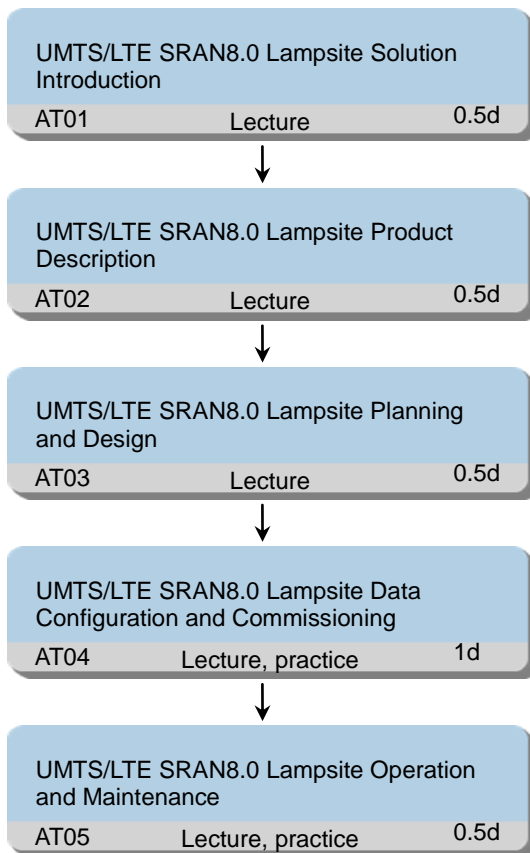
3 working days

Class Size

Min 6, Max 1

2.3.4 UMTS/LTE SRAN8.0 Lampsite Operation and Maintenance Training

Training Path



Target Audience

Field Technician
Network Deployment Engineer
RAN OM Engineer

Prerequisites

- Basic knowledge of mobile communications. At least 1 year working experience in wireless network

Objectives

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

- Provide UMTS
- LTE SRAN8.0 Lampsite Product description, installation
- Commissioning, data configuration, operation and maintenance training.

Duration

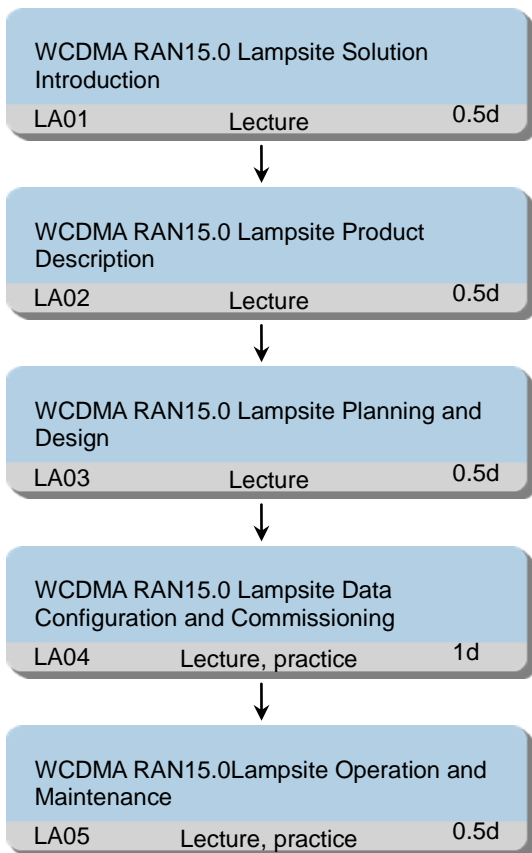
3 working days

Class Size

Min 6, Max 16

2.3.5 WCDMA RAN15.0 Lampsite Operation and Maintenance Training

Training Path



Target Audience

Field Technician
 Network Deployment Engineer
 RAN O
 M Engineer

Prerequisites

Basic knowledge of mobile communications. At least 1 year working experience in wireless network

Objectives

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

- Provide WCDMA RAN15.0 Lampsite Product description, installation
- Commissioning, data configuration, operation and maintenance training.

Duration

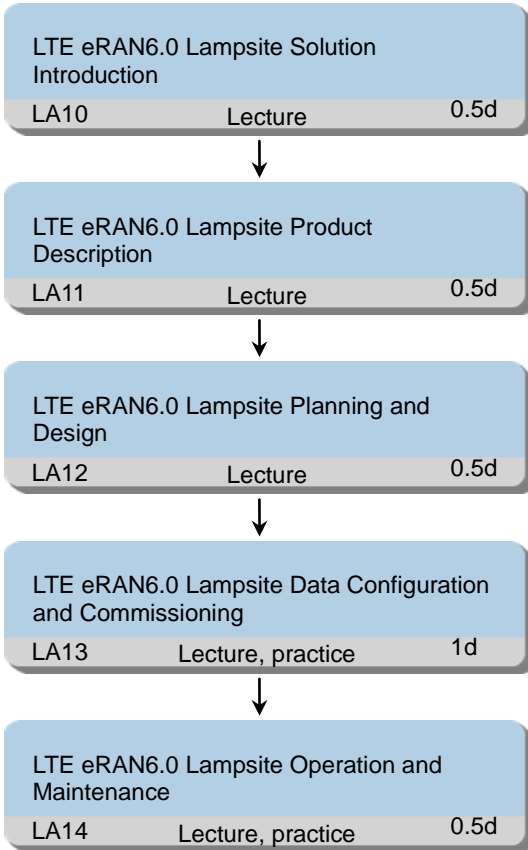
3 working days

Class Size

Min 6, Max 16

2.3.6 LTE eRAN6.0 Lapsite Operation and Maintenance Training

Training Path



Target Audience

Field Technician
 Network Deployment Engineer
 RAN O
 M Engineer

Prerequisites

Basic knowledge of mobile communications. At least 1 year working experience in wireless network

Objectives

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

- Provide LTE eRAN6.0 Lapsite Product description, installation
- Commissioning, data configuration, operation and maintenance training.

Duration

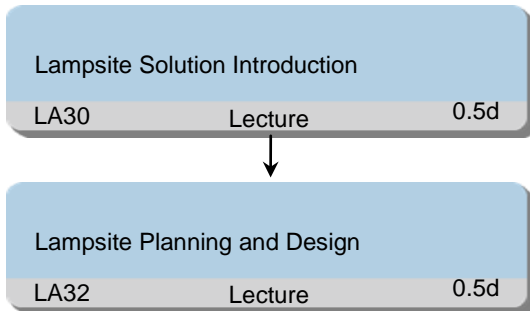
3 working days

Class Size

Min 6, Max 16

2.3.7 Lampsite Planning and Design Training

Training Path



Target Audience

Network Planning Engineers

Prerequisites

- Basic knowledge of mobile communications
- At least 1 year working experience in WCDMA wireless network operation and maintenance

Objectives

On completion of this program, the participants will

be able to:

- Outline the Lampsite solution
- Detail the advantage of Lampsite solution
- Detail the typical Lampsite application solution
- Describe the Lampsite Capacity Planning
- Describe the Lampsite Sector Planning
- Describe the Lampsite Coverage Design
- Outline the Lampsite Typical Scenario Planning
- Detail the features of Lampsite
- Describe the Case analysis

Duration

1 working day

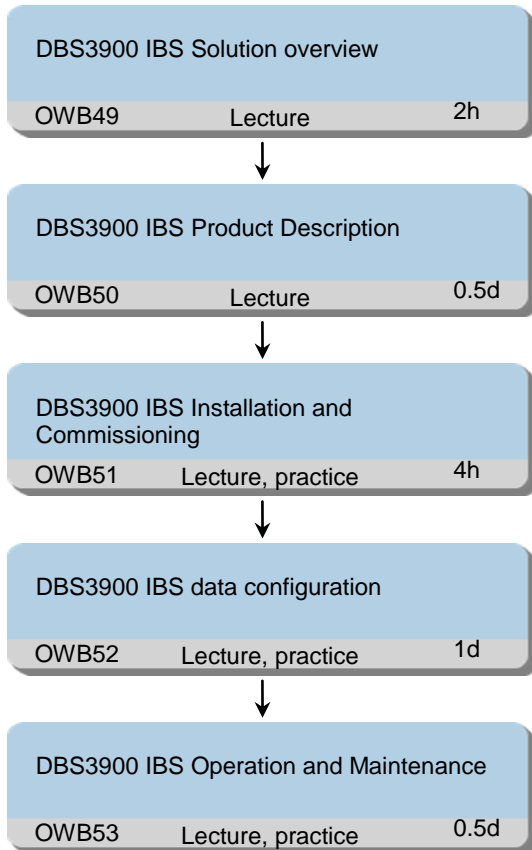
Class Size

Min 6, Max 12

2.4 DBS3900 IBS Training Programs

2.4.1 DBS3900 IBS Operation and Maintenance Training

Training Path



Target Audience

Field engineer
System engineer
Site maintainer

Prerequisites

- Basic knowledge of mobile communications

- At least 1 year working experience in WCDMA wireless network operation and maintenance

Objectives

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

- Detail the advantage of SingleDAS solution
- Detail the typical SingleDAS application solution
- Describe the SingleDAS system hardware composition and function
- Describe the SingleDAS technical specification
- Know how to install DCU and DRH in various scenarios
- Understand the details of commissioning a DAS
- Obtain the configuration principle of DCU and DRH
- Grasp the correctly procedure to configure a SingleDAS
- Perform routine operation for SingleDAS
- Perform routine maintenance for SingleDAS
- Replace DCU module and DRH hardware

Duration

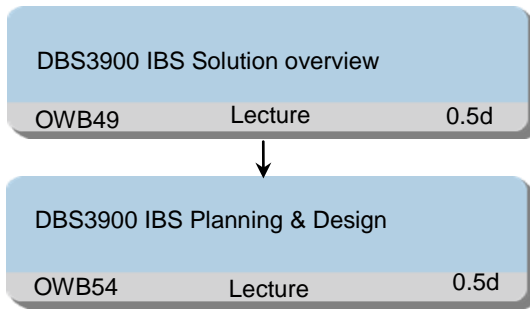
3 working days

Class Size

Min 6, Max 12

2.4.2 DBS3900 IBS Planning & Design Training

Training Path



Target Audience

Planning engineer
Site maintainer
Optimization engineer

Prerequisites

Basic knowledge of mobile communications
At least 1 year working experience in WCDMA wireless network operation and maintenance

Objectives

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

- Perform DBS3900 IBS System planning and design
- Perform DBS3900 IBS Capacity Planning and design
- Perform DBS3900 IBS Sector Planning and design
- Perform DBS3900 IBS Coverage Planning and design

Duration

1 working day

Class Size

Min 6, Max 12