

Customer Training Catalog Course Descriptions

IBS and Small Cell Product Technical Training



HUAWEI
HUAWEI Learning Service
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1.1 Training Course Descriptions

IBS and Small cell Product Technical Training Courses are designed as follows:

Code	Training Courses	Level	Duration (working days)	Training Location	Class Size
IBS Training Courses					
	In-building Coverage System Introduction	II	0.5		6 ~ 16
	Indoor Components Introduction	II	0.5		6 ~ 16
	LTE Indoor Planning	II	1		6 ~ 16
	WCDMA Indoor Planning	II	0.5		6 ~ 16
	LTE Indoor Coverage Optimization	III	0.5		6 ~ 16
	WCDMA Indoor Coverage Optimization	III	0.5		6 ~ 16
	Indoor Typical Scenario Solution	III	0.5		6 ~ 16
	IBS Design and Audit	III	1		6 ~ 16
Micro BTS Training Courses					
AT15	UMTS RAN16.0 Micro BTS Product Description and Site Solution	I	0.5		6 ~ 16
AT16	UMTS RAN16.0 Micro BTS Installation and Commissioning	I	0.5		6 ~ 16
AT17	UMTS RAN16.0 Micro BTS Data Configuration	II	1		6 ~ 16
AT18	UMTS RAN16.0 Micro BTS Operation and Maintenance	II	0.5		6 ~ 16
AT19	UMTS RAN16.0 Micro BTS Troubleshooting	III	0.5		6 ~ 16
AT20	UMTS RAN16.0 Micro BTS Network Planning	III	0.5		6 ~ 16
AT21	UMTS RAN16.0 Micro BTS Network Optimization	III	0.5		6 ~ 16
AT22	LTE eRAN7.0 Micro BTS Product Description and Site Solution	I	0.5		6 ~ 16
AT23	LTE eRAN7.0 Micro BTS Installation and Commissioning	I	0.5		6 ~ 16
AT24	LTE eRAN7.0 Micro BTS Data Configuration	II	1		6 ~ 16
AT25	LTE eRAN7.0 Micro BTS Operation and Maintenance	II	0.5		6 ~ 16
AT26	LTE eRAN7.0 Micro BTS Troubleshooting	III	0.5		6 ~ 16

AT27	LTE eRAN7.0 Micro BTS Network Planning	III	0.5		6 ~ 16
AT28	LTE eRAN7.0 Micro BTS Network Optimization	III	0.5		6 ~ 16
AT01	UMTS RAN15.0 Micro BTS Product Description and Site Solution	I	0.5		6 ~ 16
AT02	UMTS RAN15.0 Micro BTS Installation and Commissioning	I	0.5		6 ~ 16
AT03	UMTS RAN15.0 Micro BTS Data Configuration	II	1		6 ~ 16
AT04	UMTS RAN15.0 Micro BTS Operation and Maintenance	II	0.5		6 ~ 16
AT05	UMTS RAN15.0 Micro BTS Troubleshooting	III	0.5		6 ~ 16
AT06	UMTS RAN15.0 Micro BTS Network Planning	III	0.5		6 ~ 16
AT07	UMTS RAN15.0 Micro BTS Network Optimization	III	0.5		6 ~ 16
AT08	LTE eRAN6.0 Micro BTS Product Description and Site Solution	I	0.5		6 ~ 16
AT09	LTE eRAN6.0 Micro BTS Installation and Commissioning	I	0.5		6 ~ 16
AT10	LTE eRAN6.0 Micro BTS Data Configuration	II	1		6 ~ 16
AT11	LTE eRAN6.0 Micro BTS Operation and Maintenance	II	0.5		6 ~ 16
AT12	LTE eRAN6.0 Micro BTS Troubleshooting	III	0.5		6 ~ 16
AT13	LTE eRAN6.0 Micro BTS Network Planning	III	0.5		6 ~ 16
AT14	LTE eRAN6.0 Micro BTS Network Optimization	III	0.5		6 ~ 16
OEB51	eNodeB V100R005 Local Commissioning	I	1.5h		6 ~ 12
OEB53	eNodeB V100R005 Remote Commissioning	II	1.5h		6 ~ 12
OEB55	eNodeB V100R005 Initial Configuration	II	1		6 ~ 12
OES51	LTE eRAN3.0 Micro Solution	II	0.5		6 ~ 12
OES52	Micro BTS V100R005 Operation	II	1		6 ~ 12
OWB40	Micro BTS Application Scenarios and Solution	II	1h		6 ~ 12
OWB41	WCDMA V200R014 Micro BTS Product Description	II	2h		6 ~ 12
OWB42	WCDMA V200R014 Micro BTS Data Configuration	II	1		6 ~ 12
OWB43	WCDMA V200R014 Micro BTS Installation and Commissioning	II	0.5		6 ~ 12
OWB44	WCDMA V200R014 Micro BTS Operation and	II	1		6 ~ 12

	Maintenance				
Lampsite Training Courses					
LA30	UMTS/LTE SRAN9.0 Lampsite Solution Introduction	I	0.5		6 ~ 16
LA31	UMTS/LTE SRAN9.0 Lampsite Product Description	I	0.5		6 ~ 16
LA32	UMTS/LTE SRAN9.0 Lampsite Planning and Design	III	0.5		6 ~ 16
LA33	UMTS/LTE SRAN9.0 Lampsite Data Configuration and Commissioning	II	1		6 ~ 16
LA34	UMTS/LTE SRAN9.0 Lampsite Operation and Maintenance	II	0.5		6 ~ 16
LA20	WCDMA RAN16.0 Lampsite Solution Introduction	I	0.5		6 ~ 16
LA21	WCDMA RAN16.0 Lampsite Product Description	I	0.5		6 ~ 16
LA22	WCDMA RAN16.0 Lampsite Planning and Design	III	0.5		6 ~ 16
LA23	WCDMA RAN16.0 Lampsite Data Configuration and Commissioning	II	1		6 ~ 16
LA24	WCDMA RAN16.0 Lampsite Operation and Maintenance	II	0.5		6 ~ 16
LA25	LTE eRAN7.0 Lampsite Solution Introduction	I	0.5		6 ~ 16
LA26	LTE eRAN7.0 Lampsite Product Description	I	0.5		6 ~ 16
LA27	LTE eRAN7.0 Lampsite Planning and Design	III	0.5		6 ~ 16
LA28	LTE eRAN7.0 Lampsite Data Configuration and Commissioning	II	1		6 ~ 16
LA29	LTE eRAN7.0 Lampsite Operation and Maintenance	II	0.5		6 ~ 16
LA15	UMTS/LTE SRAN8.0 Lampsite Solution Introduction	I	0.5		6 ~ 16
LA16	UMTS/LTE SRAN8.0 Lampsite Product Description	I	0.5		6 ~ 16
LA17	UMTS/LTE SRAN8.0 Lampsite Planning and Design	III	0.5		6 ~ 16
LA18	UMTS/LTE SRAN8.0 Lampsite Data Configuration and Commissioning	II	1		6 ~ 16
LA19	UMTS/LTE SRAN8.0 Lampsite Operation and Maintenance	II	0.5		6 ~ 16
LA01	WCDMA RAN15.0 Lampsite Solution Introduction	I	0.5		6 ~ 16
LA02	WCDMA RAN15.0 Lampsite Product Description	I	0.5		6 ~ 16
LA03	WCDMA RAN15.0 Lampsite Planning and Design	III	0.5		6 ~ 16

LA04	WCDMA RAN15.0 Lampsite Data Configuration and Commissioning	II	1		6 ~ 16
LA05	WCDMA RAN15.0 Lampsite Operation and Maintenance	II	0.5		6 ~ 16
LA10	LTE eRAN6.0 Lampsite Solution Introduction	I	0.5		6 ~ 16
LA11	LTE eRAN6.0 Lampsite Product Description	I	0.5		6 ~ 16
LA12	LTE eRAN6.0 Lampsite Planning and Design	III	0.5		6 ~ 16
LA13	LTE eRAN6.0 Lampsite Data Configuration and Commissioning	II	1		6 ~ 16
LA14	LTE eRAN6.0 Lampsite Operation and Maintenance	II	0.5		6 ~ 16
DBS3900 IBS Training Courses					
OWB49	DBS3900 IBS Solution overview	II	2h		6 ~ 12
OWB50	DBS3900 IBS Product Description	II	0.5		6 ~ 12
OWB51	DBS3900 IBS Installation and Commissioning	II	4h		6 ~ 12
OWB52	DBS3900 IBS data configuration	II	1		6 ~ 12
OWB53	DBS3900 IBS Operation and Maintenance	II	0.5		6 ~ 12
OWB54	DBS3900 IBS Planning & Design	II	0.5		6 ~ 12

1.2 IBS Training Course Descriptions

1.2.1 In-building Coverage System Introduction



Objectives

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

- Describe the structure of indoor coverage and different indoor system solution

Target Audience

Planning Engineers
System Technicians
System Engineers

Prerequisites

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

Content

- In-building Coverage System Trend and Challenge
- In-building Coverage System Solution
- In-building Coverage Key Points

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.2.2 Indoor Components Introduction



Objectives

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

- Describe the functions of common components for indoor coverage
- Describe the functions of repeaters

Target Audience

Planning Engineers
System Technicians
System Engineers

Prerequisites

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

network

Content

- Describe Common Components for Indoor Coverage
- Introduction of Repeater

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.2.3 LTE Indoor Planning



Objectives

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

- Describe the method of LTE indoor capacity planning
- Describe the method of LTE indoor coverage planning
- Describe the method of LTE indoor transmission planning

Target Audience

Planning Engineers
System Technicians
System Engineers

Prerequisites

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

network

Content

- LTE Indoor Planning Procedure
- LTE Indoor Radio Link Budget
- LTE Indoor Capacity Dimensioning
- LTE Indoor Transmission Dimensioning
- LTE Indoor Cell Parameter Planning

Training Methods

Lectures

Duration

1 working day

Class Size

Min 6, max 16

1.2.4 WCDMA Indoor Planning



Objectives

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

- Describe the method of WCDMA indoor capacity planning
- Describe the method of WCDMA indoor coverage planning
- Describe the method of WCDMA indoor transmission planning

Target Audience

Planning Engineers
System Technicians
System Engineers

Prerequisites

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

network

Content

- WCDMA Indoor Planning Procedure
- WCDMA Indoor Radio Link Budget
- WCDMA Indoor Capacity Dimensioning
- WCDMA Indoor CE Dimensioning
- WCDMA Indoor Iub Dimensioning

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.2.5 LTE Indoor Coverage Optimization



Objectives

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

- Describe the method of LTE indoor coverage optimization
- Describe the method of LTE indoor and outdoor inter-operation

Target Audience

Planning Engineers
System Technicians
System Engineers

Prerequisites

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

Content

- Indoor Coverage Network Optimization Conception
- Solution Evaluation
- LTE RF Optimization
- Service Performance Optimization
- Indoor and Outdoor RF Inter-Optimization

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.2.6 WCDMA Indoor Coverage Optimization



Objectives

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

- Describe the method of WCDMA indoor coverage optimization
- Describe the method of WCDMA indoor and outdoor inter-operation

Target Audience

Planning Engineers
System Technicians
System Engineers

Prerequisites

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

Content

- Indoor Coverage Network Optimization Conception
- Solution Evaluation
- WCDMA RF Optimization
- Service Performance Optimization
- WCDMA Indoor and Outdoor RF Inter-Optimization

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.2.7 Indoor Typical Scenario Solution



Objectives

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

- 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

Target Audience

Planning Engineers
System Technicians
System Engineers

Prerequisites

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

network

Content

- Requirement of Typical Scenario Coverage Solutions
- Huawei Typical Scenario Coverage Solution
- Key Points in Coverage Solution Design
- Successful Cases

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.2.8 IBS Design and Audit



Objectives

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

- Describe the indoor system design process and key points
- Describe the method of audit

Target Audience

Planning Engineers
System Technicians
System Engineers

Prerequisites

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

network

Content

- Describe the indoor system design process and key points
- Describe the method of audit

Training Methods

Lectures、 Hands-on Exercise

Duration

1 working day

Class Size

Min 6, max 16

1.3 Micro BTS Training Course Descriptions

1.3.1 AT15 UMTS RAN16.0 Micro BTS Product Description and Site Solution



Objectives

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

- Describe the UMTS RAN16.0 Micro BTS Product Description and Site Solution

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

Content

- Describe the UMTS RAN16.0 Micro BTS Product Description and Site Solution

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.3.2 AT16 UMTS RAN16.0 Micro BTS Installation and Commissioning



Objectives

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

- Describe the UMTS RAN16.0 Micro BTS Installation and Commissioning

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

Content

- Describe the UMTS RAN16.0 Micro BTS Installation and Commissioning

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.3.3 AT17 UMTS RAN16.0 Micro BTS Data Configuration



Objectives

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

- Describe the UMTS RAN16.0 Micro BTS Data Configuration

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

Content

- Describe the UMTS RAN16.0 Micro BTS Data Configuration

Training Methods

Lectures

Duration

1 working day

Class Size

Min 6, max 16

1.3.4 AT18 UMTS RAN16.0 Micro BTS Operation and Maintenance



Objectives

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

- Describe the UMTS RAN16.0 Micro BTS Operation and Maintenance

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

Content

- Describe the UMTS RAN16.0 Micro BTS Operation and Maintenance

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.3.5 AT19 UMTS RAN16.0 Micro BTS Troubleshooting



Objectives

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

- Describe the UMTS RAN16.0 Micro BTS Troubleshooting

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

Content

- Describe the UMTS RAN16.0 Micro BTS Troubleshooting

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.3.6 AT20 UMTS RAN16.0 Micro BTS Network Planning



Objectives

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

- Describe the UMTS RAN16.0 Micro BTS Network Planning

Target Audience

UMTS Network Design Engineer
Network Planning Engineer
Network Optimization Engineer

Prerequisites

- Successful completion of the following courses:
- WCDMA System Overview

Content

- Describe the UMTS RAN16.0 Micro BTS Network Planning

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.3.7 AT21 UMTS RAN16.0 Micro BTS Network Optimization



Objectives

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

- Describe the UMTS RAN16.0 Micro BTS Network Optimization

Target Audience

UMTS Network Design Engineer
Network Planning Engineer
Network Optimization Engineer

Prerequisites

- Successful completion of the following courses:
- WCDMA System Overview

Content

- Describe the UMTS RAN16.0 Micro BTS Network Optimization

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.3.8 AT22 LTE eRAN7.0 Micro BTS Product Description and Site Solution



Objectives

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

- Describe the LTE eRAN7.0 Micro BTS Product Description and Site Solution

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

Content

- Describe the LTE eRAN7.0 Micro BTS Product Description and Site Solution

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.3.9 AT23 LTE eRAN7.0 Micro BTS Installation and Commissioning



Objectives

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

- Describe the LTE eRAN7.0 Micro BTS Installation and Commissioning

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

Content

- Describe the LTE eRAN7.0 Micro BTS Installation and Commissioning

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.3.10 AT24 LTE eRAN7.0 Micro BTS Data Configuration



Objectives

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

- Describe the LTE eRAN7.0 Micro BTS Data Configuration

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

Content

- Describe the LTE eRAN7.0 Micro BTS Data Configuration

Training Methods

Lectures

Duration

1 working day

Class Size

Min 6, max 16

1.3.11 AT25 LTE eRAN7.0 Micro BTS Operation and Maintenance



Objectives

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

- Describe the LTE eRAN7.0 Micro BTS Operation and Maintenance

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

Content

- Describe the LTE eRAN7.0 Micro BTS Operation and Maintenance

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.3.12 AT26 LTE eRAN7.0 Micro BTS Troubleshooting



Objectives

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

- Describe the LTE eRAN7.0 Micro BTS Troubleshooting

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

Content

- Describe the LTE eRAN7.0 Micro BTS Troubleshooting

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.3.13 AT27 LTE eRAN7.0 Micro BTS Network Planning



Objectives

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

- Describe the LTE eRAN7.0 Micro BTS Network Planning

Target Audience

LTE Network Design Engineer
Network Planning Engineer
Network Optimization Engineer

Prerequisites

- Successful completion of the following courses:
- LTE System Overview

Content

- Describe the LTE eRAN7.0 Micro BTS Network Planning

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.3.14 AT28 LTE eRAN7.0 Micro BTS Network Optimization



Objectives

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

- Describe the LTE eRAN7.0 Micro BTS Network Optimization

Target Audience

LTE Network Design Engineer
Network Planning Engineer
Network Optimization Engineer

Prerequisites

- Successful completion of the following courses:
- LTE System Overview

Content

- Describe the LTE Eran7.0 Micro BTS Network Optimization

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 1

1.3.15 AT01 UMTS RAN15.0 Micro BTS Product Description and Site Solution



Objectives

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

- Describe the UMTS RAN15.0 Micro BTS Product Description and Site Solution

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

Content

- Describe the UMTS RAN15.0 Micro BTS Product Description and Site Solution

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.3.16 AT02 UMTS RAN15.0 Micro BTS Installation and Commissioning



Objectives

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

- Describe the UMTS RAN15.0 Micro BTS Installation and Commissioning

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

Content

- Describe the UMTS RAN15.0 Micro BTS Installation and Commissioning

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.3.17 AT03 UMTS RAN15.0 Micro BTS Data Configuration



Objectives

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

- Describe the UMTS RAN15.0 Micro BTS Data Configuration

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

Content

- Describe the UMTS RAN15.0 Micro BTS Data Configuration

Training Methods

Lectures

Duration

1 working day

Class Size

Min 6, max 16

1.3.18 AT04 UMTS RAN15.0 Micro BTS Operation and Maintenance



Objectives

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

- Describe the UMTS RAN15.0 Micro BTS Operation and Maintenance

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

Content

- Describe the UMTS RAN15.0 Micro BTS Operation and Maintenance

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.3.19 AT05 UMTS RAN15.0 Micro BTS Troubleshooting



Objectives

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

- Describe the UMTS RAN15.0 Micro BTS Troubleshooting

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

Content

- Describe the UMTS RAN15.0 Micro BTS Troubleshooting

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.3.20 AT06 UMTS RAN15.0 Micro BTS Network Planning



Objectives

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

- Describe the UMTS RAN15.0 Micro BTS Network Planning

Target Audience

UMTS Network Design Engineer
Network Planning Engineer
Network Optimization Engineer

Prerequisites

- Successful completion of the following courses:
- WCDMA System Overview

Content

- Describe the UMTS RAN15.0 Micro BTS Network Planning

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.3.21 AT07 UMTS RAN15.0 Micro BTS Network Optimization



Objectives

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

- Describe the UMTS RAN15.0 Micro BTS Network Optimization

Target Audience

UMTS Network Design Engineer
Network Planning Engineer
Network Optimization Engineer

Prerequisites

- Successful completion of the following courses:
- WCDMA System Overview

Content

- Describe the UMTS RAN15.0 Micro BTS Network Optimization

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.3.22 AT08 LTE eRAN6.0 Micro BTS Product Description and Site Solution



Objectives

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

- Describe the LTE eRAN6.0 Micro BTS Product Description and Site Solution

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

Content

- Describe the LTE eRAN6.0 Micro BTS Product Description and Site Solution

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.3.23 AT09 LTE eRAN6.0 Micro BTS Installation and Commissioning



Objectives

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

- Describe the LTE eRAN6.0 Micro BTS Installation and Commissioning

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

Content

- Describe the LTE eRAN6.0 Micro BTS Installation and Commissioning

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.3.24 AT10 LTE eRAN6.0 Micro BTS Data Configuration



Objectives

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

- Describe the LTE eRAN6.0 Micro BTS Data Configuration

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

Content

- Describe the LTE eRAN6.0 Micro BTS Data Configuration

Training Methods

Lectures

Duration

1 working day

Class Size

Min 6, max 16

1.3.25 AT11 LTE eRAN6.0 Micro BTS Operation and Maintenance



Objectives

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

- Describe the LTE eRAN6.0 Micro BTS Operation and Maintenance

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

Content

- Describe the LTE eRAN6.0 Micro BTS Operation and Maintenance

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.3.26 AT12 LTE eRAN6.0 Micro BTS Troubleshooting



Objectives

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

- Describe the LTE eRAN6.0 Micro BTS Troubleshooting

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

Content

- Describe the LTE eRAN6.0 Micro BTS Troubleshooting

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.3.27 AT13 LTE eRAN6.0 Micro BTS Network Planning



Objectives

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

- Describe the LTE eRAN6.0 Micro BTS Network Planning

Target Audience

LTE Network Design Engineer
Network Planning Engineer
Network Optimization Engineer

Prerequisites

- Successful completion of the following courses:
- LTE System Overview

Content

- Describe the LTE eRAN6.0 Micro BTS Network Planning

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.3.28 AT14 LTE eRAN6.0 Micro BTS Network Optimization



Objectives

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

- Describe the LTE eRAN6.0 Micro BTS Network Optimization

Target Audience

LTE Network Design Engineer
Network Planning Engineer
Network Optimization Engineer

Prerequisites

- Successful completion of the following courses:
- LTE System Overview

Content

- Describe the LTE eRAN6.0 Micro BTS Network Optimization

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.3.29 OEB51 eNodeB V100R005 Local Commissioning



Objectives

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

- 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

Target Audience

System Technician
Service Technician
System Engineer
Service Engineer

Prerequisites

- Successful completion of the following courses:
- LTE System Overview
- eNodeB LTE V100R005 Product Description

Content

- eNodeB Commissioning Overview

- eNodeB Local Commissioning through the USB Disk
- Procedure for the Local Commissioning through the USB Disk
- Download
- Activate the Software and Data Configuration File
- eNodeB Local Commissioning on the LMT
- Prepare for the Local eNodeB Commissioning on the LMT
- Upgrade the eNodeB Software and Data Configuration File on the LMT
- Download the License on the LMT
- Query the Running Status
- Establish an O
- M Link Between the M2000 and the eNodeB

Training Methods

Lectures、 Hands-on Exercise

Duration

1.5hours

Class Size

Min 6, max 12

1.3.30 OEB53 eNodeB V100R005 Remote Commissioning



Objectives

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

- 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

Target Audience

System Engineer
Service Engineer
Service Planning Engineer
Service Design Engineer

Prerequisites

- Successful completion of the following courses:
- LTE System Overview
- eNodeB LTE V100R005 Product Description

Content

- eNodeB Commissioning Overview
- eNodeB Remote Commissioning on the M2000

Training Methods

Lectures、 Hands-on Exercise

Duration

1.5hours

Class Size

Min 6, max 12

1.3.31 OEB55 eNodeB V100R005 Initial Configuration



Objectives

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

- 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

Target Audience

System Engineer
Service Engineer
Service Planning Engineer
Service Design Engineer

Prerequisites

- Successful completion of the following courses:

- LTE System Overview
- eNodeB LTE V100R005 Product Description

Content

- eNodeB Data Configuration Introduction
- Preparing eNodeB Data
- Creating eNodeB Data
- Adjusting eNodeB Data
- Checking eNodeB Data
- Exporting eNodeB Data
- SUMMARY introduction
- Creating bulk eNodeBs with Summary
- Checking data
- Practice on eNodeB data configuration file preparation by CME

Training Methods

Lectures、 Hands-on Exercise

Duration

1 working day

Class Size

Min 6, max 12

1.3.32 OES51 LTE eRAN3.0 Micro Solution



Objectives

On completion of this course, 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 Micro BTS commissioning
- Querying the current version of Micro BTS LTE base station

- Commission the Micro BTS LTE base station through M2000
- Verify commissioning result

Target Audience

- System Engineer
- Service Engineer
- Service Planning Engineer
- Service Design Engineer
- Network Design Engineer

Prerequisites

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

Content

- Micro Solution Overview
- Micro eNodeB Introduction
- Micro eNodeB Hardware Introduction
- Micro eNodeB Auxiliary Devices
- Micro eNodeB Site Deployment
- Micro eNodeB Specification
- Micro eNodeB Deployment
- Differences between Micro eNodeBs and Macro eNodeBs
- Data Preparation before Micro eNodeB Deployment
- Micro eNodeB Deployment Procedure
- Self-planning of Micro eNodeB
- Micro Transmission Solutions
- Micro Transmission Overview
- Last-Mile Backhaul Solution
- E2E Transmission Solution

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 12

1.3.33 OES52 Micro BTS V100R005 Operation



Objectives

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

- Use LMT login Micro BTS
- Use M2000 client Login M2000 server and Micro BTS
- Execute MML in single mode
- Execute MML in batch mode
- Manage alarms of Micro BTS
- 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 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 Micro BTS commissioning
- Querying the current version of Micro BTS
- Commission the Micro BTS through M2000
- Verify commissioning result

Target Audience

System Engineer

Service Engineer

Service Planning Engineer

Service Design Engineer

Network Design Engineer

Prerequisites

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

Content

- Structure of operation and maintenance system
- Login Micro BTS OM system
- Micro BTS equipment management
- Micro BTS transport management
- Micro BTS radio management
- Backup Micro BTS configuration file, query Micro BTS version
- Tracing and real time monitoring
- The TOP N alarms are picked from the engineering projects. By presenting the description, system impact, possible causes, and handling procedure of the TOP N alarms, give an overview of how to recognize and analyze alarms. Finally, cases about alarms handling are given for trainees to have a reference in practical maintenance work about alarms.

Training Methods

Lectures

Duration

1 working day

Class Size

Min 6, max 12

1.3.34 OWB40 Micro BTS Application Scenarios and Solution



Objectives

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

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

Target Audience

System Technicians
System Engineers
RNC Engineers
NodeB Engineers

Prerequisites

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

Content

- Micro BTS application scenarios

- Urban Outdoor Hot Spot Coverage
- Urban Indoor Hot Spot Coverage
- Rural Isolated Spot Coverage
- Micro BTS solutions
- Power Backup Solution
- No Power Backup Solution
- Outdoor Solution
- Indoor Solution
- Micro BTS application cases

Training Methods

Lectures

Duration

1 hour

Class Size

Min 6, max 12

1.3.35 OWB41 WCDMA V200R014 Micro BTS Product Description



Objectives

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

- Describe the hardware structure of BTS3902E/BTS3803E
- Detail the functions of the components of BTS3902E/BTS3803E
- Make a comparison between BTS3902E and BTS3803E

Target Audience

System Technicians
System Engineers
RNC Engineers
NodeB Engineers

Prerequisites

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

Content

- BTS3902E/BTS3803E Overview

- BTS3902E/BTS3803E product introduce
- BTS3902E/BTS3803E Structure and Specification
- BTS3902E/BTS3803E hardware description
- The functions of different subsystems
- BTS3902E/BTS3803E external ports and LED description
- BTS3902E/BTS3803E cables and connection description
- BTS3902E/BTS3803E Technical Description
- BTS3902E/BTS3803E logical structure
- BTS3902E/BTS3803E RF configuration
- BTS3902E/BTS3803E Transmission scheme
- BTS3902E/BTS3803E technical specification

Training Methods

Lectures

Duration

2 hours

Class Size

Min 6, max 12

1.3.36 OWB42 WCDMA V200R014 Micro BTS Data Configuration



Objectives

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

- Provide a detail procedure on how to configure the data base on CME
- Provide a way to configure sites in batch base on CME

Target Audience

System Technicians
System Engineers
RNC Engineers
NodeB Engineers

Prerequisites

- Basic knowledge of mobile communications
- At least 1 year working experience in WCDMA wireless network operation and maintenance
- Successful completion of the following program(s):

- WCDMA V200R014 Micro BTS Operation and Maintenance

Content

- Overview of CME
- Procedure of adding NodeB data
- Configuring NodeBs in batch by using a summary data file
- Check data consistency and export configuration data

Training Methods

Lectures、 Hands-on Exercise

Duration

1 working day

Class Size

Min 6, max 12

1.3.37 OWB43 WCDMA V200R014 Micro BTS Installation and Commissioning



Objectives

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

- 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

Target Audience

System Technicians
System Engineers
RNC Engineers
NodeB Engineers

Prerequisites

- Basic knowledge of mobile communications
- At least 1 year working experience in WCDMA wireless network operation and maintenance
- Successful completion of the following program(s):

- WCDMA V200R014 Micro BTS Product Description

Content

- Installing a BTS3803E
- Installing the BTS3803E and the Dock Separately
- Installing the BTS3803E and Dock as an Integration
- Installing Cables
- Commissioning a Newly Deployed Base Station
- M2000-based Commissioning
- TF card+M2000-based Commissioning
- LMT+M2000-based Commissioning
- Node B Automatic deployment

Training Methods

Lectures、 Hands-on Exercise

Duration

0.5 working day

Class Size

Min 6, max 12

1.3.38 OWB44 WCDMA V200R014 Micro BTS Operation and Maintenance



Objectives

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

- 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

Target Audience

System Technicians
System Engineers
RNC Engineers
NodeB Engineers

Prerequisites

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

- Successful completion of the following program(s):
- WCDMA V200R014 Micro BTS Product Description

Content

- Operation and Maintenance System Overview
- UMTS Micro BTS Routine Operation
- Alarm Management
- Equipment Management
- Cell Management
- Real-time Monitoring
- UMTS Micro BTS Routine Maintenance
- Software loading
- Backup and Restore
- UMTS Micro BTS replacement

Training Methods

Lectures、 Hands-on Exercise

Duration

1 working day

Class Size

Min 6, max 12

1.4 Lampsite Training Course Descriptions

1.4.1 LA30 UMTS/LTE SRAN9.0 Lampsite Solution Introduction



Objectives

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

- Describe the Lampsite Solution

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

Content

- Describe the Lampsite Solution

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.4.2 LA31 UMTS/LTE SRAN9.0 Lampsite Product Description



Objectives

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

- Describe the Lampsite Product Description

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

Content

- Describe the Lampsite Product Description

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.4.3 LA32 UMTS/LTE SRAN9.0 Lampsite Planning and Design



Objectives

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

- Describe the Lampsite Network Planning

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

Content

- Describe the Lampsite Network Planning

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.4.4 LA33 UMTS/LTE SRAN9.0 Lampsite Data Configuration and Commissioning



Objectives

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

- Describe the Lampsite BTS Data Configuration

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

Content

- Describe the Lampsite BTS Data Configuration

Training Methods

Lectures

Duration

1 working day

Class Size

Min 6, max 16

1.4.5 LA34 UMTS/LTE SRAN9.0 Lampsite Operation and Maintenance



Objectives

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

- Describe the Lampsite BTS Operation and Maintenance

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

Content

- Describe the Lampsite BTS Operation and Maintenance

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.4.6 LA20 WCDMA RAN16.0 Lampsite Solution Introduction



Objectives

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

- Describe the Lampsite Solution

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

Content

- Describe the Lampsite Solution

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.4.7 LA21 WCDMA RAN16.0 Lampsite Product Description



Objectives

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

- Describe the Lampsite Product Description

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

Content

- Describe the Lampsite Product Description

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.4.8 LA22 WCDMA RAN16.0 Lampsite Planning and Design



Objectives

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

- Describe the Lampsite Network Planning

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

Content

- Describe the Lampsite Network Planning

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.4.9 LA23 WCDMA RAN16.0 Lapsite Data Configuration and Commissioning



Objectives

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

- Describe the Lapsite BTS Data Configuration

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

Content

- Describe the Lapsite BTS Data Configuration

Training Methods

Lectures

Duration

1 working day

Class Size

Min 6, max 16

1.4.10 LA24 WCDMA RAN16.0Lampsite Operation and Maintenance



Objectives

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

- Describe the Lampsite BTS Operation and Maintenance

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

Content

- Describe the Lampsite BTS Operation and Maintenance

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.4.11 LA25 LTE eRAN7.0 Lampsite Solution Introduction



Objectives

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

- Describe the Lampsite Solution

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

Content

- Describe the Lampsite Solution

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.4.12 LA26 LTE eRAN7.0 Lampsite Product Description



Objectives

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

- Describe the Lampsite Product Description

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

Content

- Describe the Lampsite Product Description

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.4.13 LA27 LTE eRAN7.0 Lampsite Planning and Design



Objectives

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

- Describe the Lampsite Network Planning

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

Content

- Describe the Lampsite Network Planning

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.4.14 LA28 LTE eRAN7.0 Lampsite Data Configuration and Commissioning



Objectives

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

- Describe the Lampsite BTS Data Configuration

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

Content

- Describe the Lampsite BTS Data Configuration

Training Methods

Lectures

Duration

1 working day

Class Size

Min 6, max 16

1.4.15 LA29 LTE eRAN7.0 Lampsite Operation and Maintenance



Objectives

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

- Describe the Lampsite BTS Operation and Maintenance

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

Content

- Describe the Lampsite BTS Operation and Maintenance

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.4.16 LA15 UMTS/LTE SRAN8.0 Lampsite Solution Introduction



Objectives

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

- Describe the Lampsite Solution

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

Content

- Describe the Lampsite Solution

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.4.17 LA16 UMTS/LTE SRAN8.0 Lampsite Product Description



Objectives

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

- Describe the Lampsite Product Description

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

Content

- Describe the Lampsite Product Description

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.4.18 LA17 UMTS/LTE SRAN8.0 Lampsite Planning and Design



Objectives

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

- Describe the Lampsite Network Planning

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

Content

- Describe the Lampsite Network Planning

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.4.19 LA18 UMTS/LTE SRAN8.0 Lampsite Data Configuration and Commissioning



Objectives

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

- Describe the Lampsite BTS Data Configuration

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

Content

- Describe the Lampsite BTS Data Configuration

Training Methods

Lectures

Duration

1 working day

Class Size

Min 6, max 16

1.4.20 LA19 UMTS/LTE SRAN8.0 Lampsite Operation and Maintenance



Objectives

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

- Describe the Lampsite BTS Operation and Maintenance

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

Content

- Describe the Lampsite BTS Operation and Maintenance

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.4.21 LA01 WCDMA RAN15.0 Lampsite Solution Introduction



Objectives

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

- Describe the Lampsite Solution

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

Content

- Describe the Lampsite Solution

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.4.22 LA02 WCDMA RAN15.0 Lampsite Product Description



Objectives

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

- Describe the Lampsite Product Description

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

Content

- Describe the Lampsite Product Description

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.4.23 LA03 WCDMA RAN15.0 Lampsite Planning and Design



Objectives

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

- Describe the Lampsite Network Planning

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

Content

- Describe the Lampsite Network Planning

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.4.24 LA04 WCDMA RAN15.0 Lampsite Data Configuration and Commissioning



Objectives

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

- Describe the Lampsite BTS Data Configuration

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

Content

- Describe the Lampsite BTS Data Configuration

Training Methods

Lectures

Duration

1 working day

Class Size

Min 6, max 16

1.4.25 LA05 WCDMA RAN15.0Lampsite Operation and Maintenance



Objectives

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

- Describe the Lampsite BTS Operation and Maintenance

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

Content

- Describe the Lampsite BTS Operation and Maintenance

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.4.26 LA10 LTE eRAN6.0 Lampsite Solution Introduction



Objectives

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

- Describe the Lampsite Solution

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

Content

- Describe the Lampsite Solution

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.4.27 LA11 LTE eRAN6.0 Lampsite Product Description



Objectives

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

- Describe the Lampsite Product Description

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

Content

- Describe the Lampsite Product Description

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.4.28 LA12 LTE eRAN6.0 Lampsite Planning and Design



Objectives

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

- Describe the Lampsite Network Planning

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

Content

- Describe the Lampsite Network Planning

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.4.29 LA13 LTE eRAN6.0 Lampsite Data Configuration and Commissioning



Objectives

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

- Describe the Lampsite BTS Data Configuration

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

Content

- Describe the Lampsite BTS Data Configuration

Training Methods

Lectures

Duration

1 working day

Class Size

Min 6, max 16

1.4.30 LA14 LTE eRAN6.0 Lampsite Operation and Maintenance



Objectives

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

- Describe the Lampsite BTS Operation and Maintenance

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

Content

- Describe the Lampsite BTS Operation and Maintenance

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 16

1.5 DBS3900 IBS Training Course Descriptions

1.5.1 OWB49 DBS3900 IBS Solution overview



Objectives

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

- Detail the advantage of SingleDAS solution
- Detail the typical SingleDAS application solution

Target Audience

System Technicians

System Engineers

RNC Engineers

NodeB Engineers

Prerequisites

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

Content

- DBS3900 IBS high power solution introduction
- Advantage of DBS3900 IBS solution
- Flexible deployment
- Unified management
- Easy expansion
- Smooth evolution
- DBS3900 IBS typical application scenario

Training Methods

Lectures

Duration

2 hours

Class Size

Min 6, max 12

1.5.2 OWB50 DBS3900 IBS Product Description



Objectives

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

- Describe the SingleDAS system hardware composition and function
- Describe the SingleDAS technical specification

Target Audience

System Technicians
System Engineers
RNC Engineers
NodeB Engineers

Prerequisites

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

Content

- DBS3900 IBS Overview
- DCU hardware description and configuration principle

- DCU product description
- DCU cable description
- DCU configuration principle
- DRH hardware description and configuration principle
- DRH product description
- DRH cable description
- DRH attached equipment
- DRH configuration principle
- DBS3900 IBS Technical Specification
- DCU technical specification
- DRH technical specification

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 12

1.5.3 OWB51 DBS3900 IBS Installation and Commissioning



Objectives

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

- Know how to install DCU and DRH in various scenarios
- Understand the details of commissioning a DAS

Target Audience

System Technicians
System Engineers
RNC Engineers
NodeB Engineers

Prerequisites

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

program(s):

- SingleDAS Product Description

Content

- Installation Scenario introduction
- DCU cabinet installation
- RCH cabinet installation
- DCU and RCH commissioning
- Remote commissioning base on M2000
- Local commissioning base on WebLMT

Training Methods

Lectures、 Hands-on Exercise

Duration

4 hours

Class Size

Min 6, max 12

1.5.4 OWB52 DBS3900 IBS data configuration



Objectives

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

- Obtain the configuration principle of DCU and DRH
- Grasp the correctly procedure to configure a SingleDAS

Target Audience

System Technicians
System Engineers
RNC Engineers
NodeB Engineers

Prerequisites

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

- Successful completion of the following program(s):
- SingleDAS Operation and Maintenance

Content

- Data configuration overview
- Data configuration procedure
- Preparation
- DBS3900 IBS data configuring by WEBLMT

Training Methods

Lectures、 Hands-on Exercise

Duration

1 working day

Class Size

Min 6, max 12

1.5.5 OWB53 DBS3900 IBS Operation and Maintenance



Objectives

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

- Perform routine operation for SingleDAS
- Perform routine maintenance for SingleDAS
- Replace DCU module and DRH hardware

Target Audience

System Technicians
System Engineers
RNC Engineers
NodeB Engineers

Prerequisites

- Basic knowledge of mobile communications
- At least 1 year working experience in WCDMA wireless network operation and maintenance
- Successful completion of the following program(s):
- SingleDAS Product Description

Content

- Operation and Maintenance System Overview
- DBS3900 IBS Routine Operation
- Single DAS routine operation introduction
- Software Version upgrade and rollback
- Data backup and restore
- Basic operation through LMT and M2000
- DBS3900 IBS Routine Maintenance
- Equipment configuration maintenance
- System maintenance
- Wireless parameters maintenance
- Basic maintenance through LMT and M2000

Training Methods

Lectures、 Hands-on Exercise

Duration

0.5 working day

Class Size

Min 6, max 12

1.5.6 OWB54 DBS3900 IBS Planning & Design



Objectives

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

- Perform routine operation for SingleDAS
- Perform routine maintenance for SingleDAS
- Replace DCU module and DRH hardware

Target Audience

System Technicians
System Engineers
RNC Engineers
NodeB Engineers

Prerequisites

- Basic knowledge of mobile communications
- At least 1 year working experience in WCDMA wireless network operation and maintenance
- Successful completion of the following program(s):
- SingleDAS Product Description

Content

- The process of DBS3900 IBS survey and design
- Preparation of site survey and engineering survey
- IBS share solutions introduction
- System planning and design
- Capacity Planning and design
- Sector Planning and design
- Coverage Planning and design

Training Methods

Lectures

Duration

0.5 working day

Class Size

Min 6, max 12

