

HCIA-LTE



Online Course

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Course Modules

1. LTE System Overview

- Network Architecture
- Evolution of Cellular Networks
- 3GPP Releases
- E-UTRAN Architecture
- E-UTRAN Interfaces and Protocols
- EPC Architecture
- EPC Interfaces and Protocols
- LTE Air Interface Principles
- Radio Interface Techniques
- Principles of OFDM
- LTE Channel Structures
- LTE Frame Structure
- Downlink OFDMA
- Uplink SC-FDMA
- Multiple Input Multiple Output
- Multimedia Broadcast Multicast Service
- eNodeB Product Overview
- The Huawei eNodeB family
- Products and application scenarios
- Operation and Maintenance

2.eNodeB LTE Product Description

- eNodeB System Overview
- eNodeB System Structure
- eNodeB Auxiliary Devices
- eNodeB Typical Networking

3.eNodeB LTE Operation

- Structure of operation and maintenance system
- Login eNodeB O&M system
- eNodeB equipment management
- eNodeB transport management
- eNodeB Radio Management
- eNodeB clock management
- eNodeB inventory and report management
- Software Management

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4.eNodeB Initial Configuration by CME

- eNodeB Data Configuration by CME Introduction
- Preparing eNodeB Data
- Creating eNodeB Data
- Adjusting eNodeB Data
- Checking eNodeB Data
- Exporting eNodeB Data



5.eNodeB LTE Initial Configuration by MML Practice Guide

- eNodeB data configuration preparation
- MML for common data
- MML for device data
- MML for transmission data
- MML for radio data
- MML for specific scenario

6.eNodeB LTE Data Introduction for Initial Configuration

- eNodeB Data Configuration Introduction
- Common Data Parameters Introduction
- Data Preparation in Specific Scenarios

7. LTE eRAN Automatic OMCH Establishment

- Automatic OMCH establishment phase during base station deployment
- DHCP introduction
- Schemes for Obtaining VLAN Information
- Procedure for Obtaining Configuration Info in different Scenarios

8.eNodeB LTE Equipment Commissioning

- eNodeB Commissioning Overview
- eNodeB Remote Commissioning on the M2000

9.eNodeB LTE Field Maintenance

- Local Operation and Maintenance Introduction
- check the status of board by LEDs
- Routine Operation and Maintenance
- Replacing boards and optical module of eNodeB
- Routine Maintenance items for eNodeB

10.eNodeB LTE TOP Alarm Handling

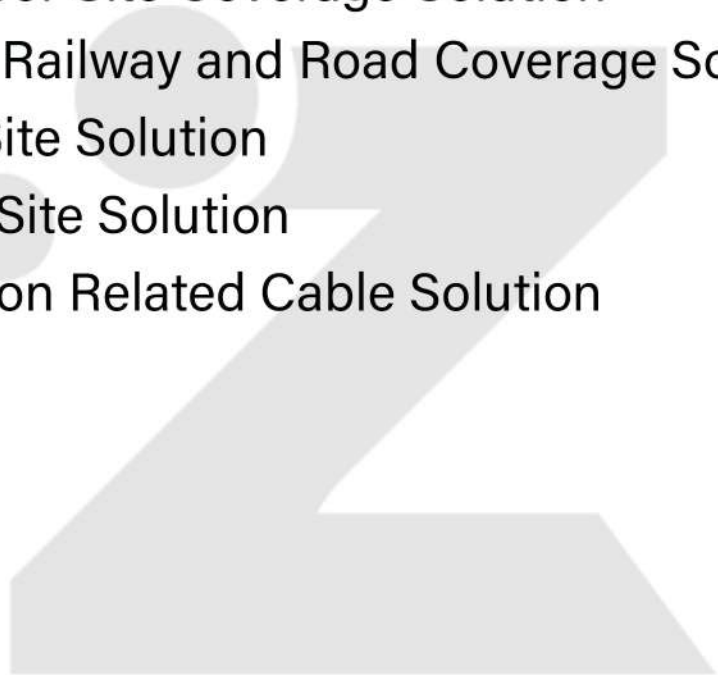
- Alarm Overview
- Top Alarm

11. eNodeB Troubleshooting

- Troubleshooting Overview
- Troubleshooting Cell Unavailable Faults
- Troubleshooting IP Transmission Faults
- Troubleshooting Application Layer Faults
- Troubleshooting Synchronization Faults
- Troubleshooting Transmission Security Faults
- Troubleshooting RF Unit Faults
- Troubleshooting License Faults

12.eNodeB LTE Site Solution

- Huawei LTE Product Introduction
- Typical Out Door Site Coverage Solution
- Typical In Door Site Coverage Solution
- High-Speed Railway and Road Coverage Solution
- FDD+TDD Site Solution
- Easy Marco Site Solution
- Tower Solution Related Cable Solution



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