

HCIP-LTE



Online Course

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Course Modules

1.LTE Air Interface

- LTE Air Interface
- The evolution of cellular networks and 3Gpp release
- Radio interface techniques
- OFDMA/SC-FDMA principle, signal generation and processing
- Radio interface protocols
- Time-domain & frequency-domain structr in the radio interface
- Channel structure of the radio interface
- Uplink/downlink transmission technique
- The paging procedure
- The cell search procedure
- The random-access procedure
- Uplink/downlink power controls
- HARQ
- Concepts of layers, channel rank, spatial multiplexing,etc.,



2.LTE Advance Troubleshooting

- EPS End to End IP Protocol Analysis
- End to end IP protocol architecture
- Method/ tools on collecting IP layer message
- Trace analysis:
 - O&M trace
 - Control Plane trace
 - User Plane trace

3.LTE Throughput Analysis

- Factors affecting LTE throughput
- Analysis on throughput problem
- Low throughput
- Fluctuating Throughput

4.eNodeB LTE Antenna & Feeder System Fault & Troubleshooting

- Faults related to antenna & feeder system
- PIM principle and fault analysis
- VSWR principle and fault analysis
- TMA working principle and power supply
- Location by section method in PIM and VSWR troubleshooting
- Troubleshooting with help of Huawei U2000 and Web LMT



5.eNodeB LTE Reconfiguration

- Reconfiguration Working Flow
- Reconfiguration Tools and Operation
- Radio/Device/Transmission Data Reconfiguration
- Data Reconfiguration in Typical Scenarios

6.LTE Protocols and E2E Signaling

- The detail signaling procedure of UE access network
- The detail signaling procedure of paging
- The detail signaling procedure of TAU
- The detail signaling procedure of Handover
- The detail signaling procedure of detach

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REMOTELY!!**

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in terms of time management,
flexibility, and the ability
to access resources anytime,
anywhere can be compelling.



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