

HCIE-5G-Radio



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**Online
Course**

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Course Modules

1. In-depth Introduction to 5G Radio Network Principles

- Key Points of 5G Air Interface
- Key Points of 5G Frequency Bands and Specification
- Key Points of 5G Air Interface Protocol Stack
- Key Points of 5G Air Interface Channel and Physical Layer Processes
- Key Points of 5G Protocols and Signaling
- Key points of 5G protocols
- Key points of 5G NSA signaling
- Key points of 5G SA signaling

2. Key Technologies of the 5G Core Network and Bearer Network

- 5G Core Network Deployment and Evolution Solutions
- Selection of NSA or SA
- NSA Network Deployment and Evolution Suggestions
- SA Network Deployment and Evolution Suggestions
- 5GC Cloud Evolution
 - MEC Application Scenarios and Typical Cases Overview
 - 5G Core Slicing Solution
 - 5G Transport Network Evolution and Deployment Overview
- 5G Bearer Network Evolution Solution
- 5G Midhaul & Backhaul Network Key Technology
- 5G Fronthaul Network Key Technology



4.5G NR Wireless Network Design

- 5G Digital Indoor System Deployment Solution and Planning
- Overview of 5G Digital Indoor System Scenarios
- 5G Digital Indoor System Solutions
- 5G Digital Indoor System Deployment and Planning
- 5G NR Service Interface Planning and Design
- 5G Network Topology
- 5G Interface Planning
- 5G Site Transmission Assurance
- 5G Interface Planning Practice
- 5G Network QoS Design
- Differences between 5G QoS and 4G QoS
- 5G QoS Service Process and Application Deployment
- 5G QoS Bearer Assurance
- 5G NR O&M Networking Design
- NR Network O&M Overview
- NR Maintenance and Test Network Design
- NR Maintenance and Test Features



3.5G Service E2E Integration

- 5G NR Site Solution and Modernization Design
- NR site solution overview
- BBU and AAU deployment and modernization
- Front-Haul and power supply deployment and modernization
- Synchronization solution and EHS
- 5G Service and Network Commissioning
- Radio network hardware selection and reconstruction
- Radio network configuration and commissioning
- Radio network single-site test
- Typical service commissioning

5.5G Radio Network Faults Troubleshooting

- gNodeB Fault Analysis and Troubleshooting
- Fault Analysis and Troubleshooting Overview
- Cell Fault Analysis and Handling
- IP Transmission Fault Analysis and Troubleshooting
- Clock Synchronization Faults Analysis and Troubleshooting
- NSA Access Fault Analysis and Troubleshooting
- gNodeB Faults Troubleshooting Practice
- Lampsite Troubleshooting
- Lampsite troubleshooting procedure
- Lampsite BBU troubleshooting
- Lampsite hardware and other troubleshooting



6.5G Radio Network Optimization & Service Problem Handling

- 5G Radio Network Feature Application Practice
- 5G Power Control Feature Practice
- 5G Channel Management Feature Practice
- 5G Scheduling Feature Practice
- 5G Mobility Management Feature Practice
- 5G MIMO Feature Practice
- 5G NSA Dual Connection Feature Practice
- 5G Radio Network Problem Analysis Practice
- 5G Low speed downloading problem handling practice
- 5G Access Failure problem handling practice

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in terms of time management,
flexibility, and the ability
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