DRIVE TEST DURATION: 30 DAYS ONLINE/OFFLINE/FIELD

CERTIFICATE IN DRIVE TEST AND NETWORK OPTMIZATION

Drive Test and Network Optimization Training, designed to equip participants with practical skills and knowledge in optimizing telecommunication networks. This handson training will cover key aspects such as RF drive testing, analyzing network performance, troubleshooting, and optimization techniques.

Module 1: Introduction to Mobile Networks

- Basics of cellular networks (2G, 3G, 4G, 5G)
- Key concepts: frequency bands, cell structure, and sectors
- Overview of network optimization and its importance

Module 2: Drive Testing Fundamentals

- Purpose and types of drive tests
 - Route drive test
 - Cluster drive test
 - Indoor testing
- Equipment and tools used in drive testing
 - Drive test kits
 - o GPS, scanners, and analyzers
- Introduction to drive test software (e.g., TEMS, Nemo, NetAct)

Module 3: Key Performance Indicators (KPIs)

- Understanding RF KPIs: RSRP, SINR, CQI, etc.
- Throughput, latency, and call drop rate analysis
- Benchmarking competitors

Module 4: Practical Drive Testing

- Planning drive routes
- Setting up drive test equipment
- Conducting the test: step-by-step guide
- Troubleshooting common challenges

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Module 5: Network Optimization Techniques

- Signal quality improvement
- Handover optimization
- Interference management
- Capacity planning and load balancing

Module 6: Tools and Software for Optimization

- Common network optimization software: NetAct, iBwave, Atoll
- Using GIS tools for mapping and analysis

Module 7: Data Analysis and Reporting

- Extracting and analyzing logs
- Creating professional drive test reports
- Identifying and addressing network issues

Module 8: Advanced Topics

- Optimization for emerging technologies (e.g., VoLTE, 5G)
- Understanding MIMO and beamforming
- Introduction to AI in network optimization

Module 9: Certification Preparation

- Mock tests
- Case studies and real-world scenarios
- Final project: Analyze and optimize a sample network

Hands-on Experience

- Real-world drive tests
- Network troubleshooting tasks
- Collaborative optimization pro

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- REQUIREMENTS
- 1. SMART PHONE

DRIVE TEST

2. PERSONAL COMPUTER (OPTIONAL)

COURSE COST: 400,000/= (108 DOLLARS)