

MobileComm Professionals, Inc.

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<u>Certification & Training on CDMA Basics to Advance</u> <u>Course Duration (1 Month)</u>

Course Content

1).Overview.....(1 Day)

- Concepts of CDMA.
- Spread spectrum technology.
- Key characteristics of CDMA.
- Comparison with FDMA & TDMA.

2).Coding Basics.....(2 Days)

- CPN Codes and their characteristics
- Orthogonal Code and its characteristics
- Walsh code generation techniques.
- Use of codes in CDMA.

3).CDMA Channels.....(3 Days)

- Physical and logical channels.
- Forward Link Channels.
- Reverse Link Channels.
- Control and traffic channels.
- Rate sets and Multiplexing.

4).Physical Layer Operations.....(2 Days)

- Variable Rate Coding.
- Encoding and interleaving.
- Walsh Spreading.
- Scrambling PN Spreading.
- Orthogonal Modulation.

5).Call Processing.....(4 Days)

- Call processing state machine.
- System determination & acquisition.











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• Idle mode operations.

- System access operations.
- Call Setup and release operations.
- Mobile initiated call Setup.
- Mobile terminated call Setup.

6).Mobility and Handoffs.....(2 Days)

- Registration.
- Idle handoffs.
- Soft and softer handoffs.
- Hard handoffs.

7).Power Control.....(2 Days)

- Need and benefits of power control.
- Reverse link power control.
- Forward link power control.

8).1x EV-DO Introduction.....(2 Days)

- Introduction to 1xEV-DO
- Motivation for 1xEV-DO
- 1xEV-DO standards
- 1xEV-DO data rates in forward and reverse directions
- How are higher data rates achieved in 1xEV-DO

9).1xEV-DO Architecture......(2 Days)

- Overview of the 1xEV-DO architecture competitors
- New 1xEV-DO components and interfaces

Holiday for Test Preparation.....(2 Days) Course Assessment through written test & mock interview







