

Course ID

IS95

Course Duration

2 days

Related Courses

Course Title

cdmaOne/IS95: Network Architecture, Operation, and Design

- UMTS-FDD: Network Architecture, Operation, and Design (UMTS-FDD, 3 days)
- UMTS-TDD: Network Architecture, Operation, and Design (UMTS-TDD, 2 days)
- HSDPA: Network Architecture, Operation, and Design (HSDPA, 2 days)
- 1xRTT: Network Architecture, Operation, and Design (1XRTT, 2 days)
- 1xEVDO: Network Architecture, Operation, and Design (EVDO, 2 days)

Aimed At

Those experienced with a wireless technology and understanding of the direct sequence spread spectrum techniques who wish to study cdmaOne , or IS95. The standard presentation of this course assumes a bachelor of science in Electrical Engineering, Mathematics, Physics, or a related subject along with an appropriate background in communications.

Group Size

5-25

Prerequisites

- Direct Sequence Spread Spectrum Techniques and CDMA-based Technologies (CDMA, 2 days)
- Knowledge of the wireless network structure and operation, RF propagation and fading issues, and link budget analysis.
- At least two years experience in the design and optimization of a wireless network using any major technology.

Course In a Nutshell

Whether you know it as the ‘Qualcomm CDMA’, IS95, or cdmaOne, it’s a technology that is not only important in its own right, but it also paved the way for a whole family of CDMA-based technologies of the future. As an early CDMA system, cdmaOne is a relatively simple technology; however, it captures all the uniqueness of a CDMA-based system, providing an excellent launch pad for a discussion of all CDMA-based systems.

You will learn how the direct sequence spread spectrum concepts have been implemented in a real system. You will see how even relatively simple ideas can become hard to implement when they all must work together. These ‘system level’ questions and associated answers will drive our discussion of how to design and optimize better CDMA networks. The insights gained from our discussion of the technology’s strengths and limitations will help you grasp the issues central to the design and operation of CDMA networks generally, and thus motivate the study of the CDMA-based technologies of the third generation and beyond.

Customize It! *Customize this course to your specific needs at little-to-no additional cost. We offer distinct versions of this course tailored for audiences such as:*

- Network design and optimization engineers
- Equipment or application designers
- Less technical audiences such as managers, executives, business planners, sales and marketing specialists, and operations and support personnel

Combine this course with its natural prequel, Direct Sequence Spread Spectrum and CDMA-based Technologies (CDMA, 2 days). Ask us about the combo discount.

Course Outline We will provide a detailed course outline following training needs assessment. Please call or e-mail to schedule a no-obligation conference call to help us understand your audience background and training objectives.

How You Will Learn

- You will learn in interactive lecture format from an instructor who's among the most knowledgeable and dynamic in the industry.
- Along with lecture, we use exercises, puzzles, case studies, and interesting group activities to enrich the instruction and drive home the essential points.
- If you already know something about the technology, we will build on that. We'll compare and contrast what's familiar with what's new, making new ideas easier to learn as well as more relevant.
- If your background is less technical, we will use meaningful and ingenious examples and analogies to simplify the complex subject matter.
- The Participant Handbook will provide you with a structure to which you can add the information and insight provided in real-time, turning it into a valuable reference resource you can take back to your job.

Revised

Nov. 18, 2005