HSPA Optimization

58 Min.

LEARNING OBJECTIVE:

Upon completing the course, the participant will be able to:

➢ Understand the protocols
➢ Understand the HSPA Optimization Procedure
➢ Dig deep into the Call setup scenarios RRM
➢ Examine the Key performance Indicators

COURSE OBJECTIVE:

The HSPA (HSDPA/HSUPA) Optimization Training course covers the protocols and procedures for network optimization. You will undertake an in-depth study of the workings of HSDPA/HSUPA in a UMTS network and learn the call setup scenarios. deployment scenarios, the Radio Resource management (RRM) Procedure in detail. The analysis of typical KPIs is presented in order to assess and evaluate the optimization performed on the system.

WHO SHOULD ATTEND:

This course is designed to provide a Health check of the HSPA Network system specially designed for strategic or technical managers, consultants, communications professionals, network professionals and others who plan on using, evaluating or working with HSPA wireless network.

TARGET AUDIENCE:

RF Engineers, 3G Planners and optimizer, Drive Test Engineers.

INSTRUCTIONAL METHODS:

Lectures in Classroom, Virtual Classroom trainings, discussion, Questions & Answers. All participants will also receive comprehensive course materials.

COURSE OUTLINE:

| 1. | Overview |

1.1 Overview and objectives

1.2 HSDPA Channels

1.3 HSUPA Channels

1.4 UE initiated Call set up (PS)

1.5 UE initiated Call Tear down (PS)

1.6 RRM & Parameters

1.7 Enable16 QAM Modulation

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2. Basics

2.1 HSDPA code selection

2.2 Number of High Speed – Shared Control Channel

2.3 Iub HSDPA Bitrate

2.4 Selection of HSUPA TTI

2.5 Power allocation in HSDPA

2.6 key enablers in HSPA Optimization

2.7 Target of optimization for HSPA and UMTS

2.8 Performance optimization procedure

2.9 Monitoring of HSPA Blocking

2.10 HSDPA Power Allocation

3. Intermediate

3.1 HSDPA Power control

3.2 Measurement Power Offset

3.3 CQI Reporting & Link Adaptation

3.4 CQI Compensation

3.5 HSDPA Code Resource Allocation

3.6 Code Tree Optimization

3.7 NodeB Controlled Dynamic Allocation

3.8 HSDPA Mobility Management

3.9 HSDPA Channel Type Selection & Switching

4. Advanced

4.1 Switching from DCH to HS-DSCH

4.2 Switching from HS-DSCH to DCH

4.3 Fast Packet Scheduling

4.4 Dynamic E-RGCH / E-HICH Code Allocation

4.5 NodeB Scheduling

4.6 E-DCH Establishment

4.7 Channel Type Switching

Evaluation and feedback of the participants

Maximum number of participants:	15
Duration:	58 Min.