

HSPA Explained

COURSE OUTLINE



COURSE DETAILS

Target Audience

Mobile Networks RF Engineers
Mobile Networks Field Engineers
Mobile Networks Planning and Optimization Engineers
Mobile Networks Performance Engineers

Training Objective

Basic introduction to HSDPA
Basic introduction to Enhanced Uplink (HSUPA)
Understand the HSPA Evolution and Features

Duration of Training: 3 Days (to be determined depending on the contents)

Prerequisite

Basic knowledge of 3G Mobile Networks Architecture
Basic knowledge of 3G Mobile Networks Air Interface
Basic knowledge of 3G Mobile Networks Operation (Signalling & Protocols)

COURSE MODULES

1. HSDPA Overview

Introduction to HSDPA
HSDPA Specifications
HSDPA principals
HSDPA channels
HSDPA Data Rates
HSDPA Terminals

2. Enhanced Uplink (HSUPA) Overview

Introduction to HSUPA
HSDPA Specifications
HSDPA principals
HSDPA channel

HSDPA Data Rates

HSDPA Terminals

3. HSPA Evolution (HSPA+)

64-QAM HSDPA

16-QAM HSUPA

MIMO

4TX MIMO

DC-HSDPA and MIMO

DB-HSDPA

DC-HSUPA

4C-HSDPA

8C-HSDPA

HS-DSCH in CELL_FACH

4. HSPA Resource Management

HSDPA Resource management

HSUPA Resource management