

**LEGEND Technologies**

# *UMTS Planning Course*



**LIVE** *on Top*



# UMTS Radio Planning

## ➤ Description

The UMTS Radio Network Planning designed to provide a solid understanding of how a radio network is designed and planned for UMTS. The course emphasizes the understanding of the intimate relation between capacity and coverage and the impact on capacity and coverage by different parameters. UMTS Radio Network Planning includes illustrative examples and practical exercises.

## ➤ Objectives

Upon completion of this course, the attendees will:

- How do you calculate the coverage and capacity of a WCDMA network?
- What is the expected range for different services?
- What is important when selecting sites?
- How can WCDMA co-exist with other systems?
- How can capacity and coverage be increased?
- What are the principles behind Radio Network planning tools for WCDMA?
- How can repeaters improve coverage and capacity?
- How does the choice of antennas affect network performance?
- What are the principles for power and code planning?

## ➤ Course Duration

24 hrs

## ➤ Course Contents

- 1- **General revision for UMTS system survey**
- 2- **Planning process and procedures**
  - Input of planning process
  - Output of planning process
  - Procedures of the planning process
- 3- **Dimensioning process**
  - Coverage dimensioning
  - Capacity dimensioning
  - Balance between coverage and capacity
  - Case study

- 4- **Site tuning (Google earth+ MapInfo + Atoll)**
- 5- **TSS (technical site survey)**
- 6- **Detailed planning**
  - Neighbors planning
  - Code planning
- 7- **Site acceptance process (2 log files analysis)**
- 8- **Parameters tuning**
  - Idle mode parameters
  - H.O parameters
  - IRAT parameters
- 9- **Optimization Case study**





*Our mission:*

*Raise the competency level of technology market candidates Individual or corporate to enable them to face the future market challenges.*