TK313: UMTS Planning

Duration

5.0 Days

Course Content

1. WCDMA Fundamentals

- 1.1. Introduction to WCDMA Air Interface
- 1.2. WCDMA Physical Channels
- 1.3. HSPA Principles
- 1.4. HSPA Physical Channels
- 1.5. RRM Functions

2. Radio Planning Fundamentals

- 2.1. Radio Propagation Mechanisms
- 2.2. Fading Phenomena
- 2.3. Free Space Loss
- 2.4. NodeB and UE Performance

3. Radio Network planning process

- 3.1. Radio Network Planning Process
- 3.2. Main Steps in Dimensioning Process

4. Coverage Dimensioning

- 4.1. Link Budget for Different Services
- 4.2. Link Budgets and Parameters
- 4.3. Planning Margins

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4.4. Planning Thresholds

4.5. Cell Range Calculation

5. Capacity Dimensioning

5.1. Basic Traffic Modeling

5.2. Calculation of Air Interface Capacity and Load

6. Coverage and Capacity Planning and Improvements

6.1. Different Planning Approaches

6.2. Coverage and Capacity Improvement

7. Initial Tuning

7.1. Scrambling Code Planning

7.2. Neighbor List Planning

7.3. Location, Routing and UTRAN Registration Area Planning

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