

To improve skills while working with Cellular Expert software, HNIT-BALTIC offers several types of training course. The trainings program range from Cellular Expert Introduction to Implementation Project Courses.

- Cellular Expert Introduction Course (3 days);
- Cellular Expert Introduction Course for WiMax (4 days);
- Cellular Expert Introduction Course for UMTS/CDMA (4 days)
- Cellular Expert Radio Links Course (2 days);
- Cellular Expert Advanced Course (7 days);
- Cellular Expert Courses with Implementation Project (from 5 to 10 days)

Customized projects are also offered. Individual course agenda is settled according to the customer's specification and is adjusted to meet specific needs and requirements of the company.

Each class is available at the customer site or at the HNIT-BALTIC training class.

For more information:

Tel. +370 5 2150575

www.cellular-expert.com

Training Provider

HNIT-BALTIC, UAB

Tel: +370 5 2150575

Fax: + 370 5 2150576

cellexp@hnit-baltic.lt

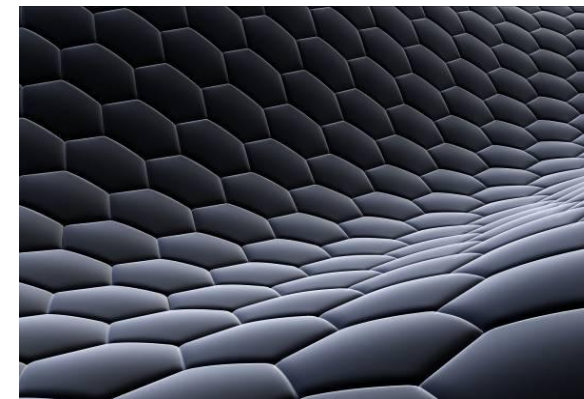
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Training Program

Cellular Expert™



CELLULAR EXPERT INTRODUCTION COURSE

The purpose of this workshop is to familiarize Cellular Expert users - telecommunications specialists, with the basic knowledge of the software.

The course covers introduction to Cellular Expert concepts, overall Cellular Expert functionality and practical exercises.

MAJOR TOPICS:

1st day

- Cellular Expert architecture, data model and database structure overview;
- Management of base station radio equipment;
- Signal strength and best server predictions calculation;
- Nominal planning of the network;
- Antenna tilt optimization configuration;
- Calculation of C/I matrix, total C/I, C/A layers and C/I, C/A layers for each assigned channel;
- Quick C/I, C/A interference checking without channel assignment;
- Visibility analysis, complex visibility, Fresnel visibility;
- Point-to-point analysis: Dynamic path profiling.

2nd day

- Point-to-point analysis: path profiling;
- Hata type prediction model analysis and calculation;
- Line Of Sight type prediction model analysis and calculation;
- Walfish-Ikegami prediction model analysis and calculation;
- Drive-test data import and analysis;
- Hata type prediction model parameters tuning.

3rd day

- Creation of traffic map using statistical or actual traffic data obtained from the OSS;
- Estimation of traffic load of each Sector/Cell/Site using created Traffic map;
- Configuration and calculation of multiple tasks using Batch Processing – Task Scheduler;
- Creating and managing Personal Geodatabase.

Additionally to Cellular Expert Introduction course technology specific trainings are also offered:

CELLULAR EXPERT FOR WIMAX COURSE

MAJOR TOPICS:

- SUI type prediction model analysis and calculation;
- (S)OFDMA system parameters analysis;
- WiMax adaptive modulation, bit rate, throughput and spectral efficiency calculation.

CELLULAR EXPERT FOR UMTS/CDMA COURSE

MAJOR TOPICS:

- UMTS/CDMA system parameters definition and estimation of required network configuration;
- Traffic data classes and traffic mix categories analysis;
- UMTS/CDMA network dimensioning, nominal cell capacity and coverage planning;
- Power budget calculation for uplink and downlink
- UMTS/CDMA coverage prediction.

CELLULAR EXPERT RADIO LINKS TRAINING

The two days course is applicable to telecommunication engineers who need to accomplish microwave network planning tasks using Cellular Expert Radio Links.

MAJOR TOPICS:

- Radio Links equipment data management, import of parabolic antennas and radiation pattern generation;
- Radio channel and spectrum density mask analysis;
- Radio Links design, configuration of radio links parameters;
- Radio Links combinations into transmission lines;
- Performance targets and objectives for radio links;
- Radio Links performance and availability prediction, interference analysis;
- Automatic frequency planning between radio links;
- Scattering analysis;
- Intermodulation analysis of non-linear elements;
- Power flux density analysis.

CELLULAR EXPERT ADVANCED COURSE

This course program combines Cellular Expert Introduction, Cellular Expert for WIMAX as well as Cellular Expert for UMTS/CDMA, Radio links topics.

CELLULAR EXPERT COURSES AND IMPLEMENTATION PROJECT

Telecommunication professionals will benefit from choosing standard Cellular Expert training courses with implementation project. Our qualified instructors will perform the following tasks:

- Installation of the Cellular Expert software and other required components;
- Preparation of the network and geographical data;
- Configuration of the propagation model.

CUSTOMIZED PROJECTS AND COURSES

In addition to these standard training courses, customized training services can also be provided upon request.

MAJOR TOPICS:

- Advanced customer specific tasks;
- Software customization;
- Network data import.

PREREQUISITES FOR CELLULAR EXPERT COURSES:

- ✓ Working knowledge of ArcGIS, Spatial Analyst;
- ✓ Knowledge of Telecommunications.

