



Insight to Cellular

# Expert Training Program 2025

Insight to Cellular

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# 1. Executive Introduction Seminars

**5G Technology**  
Essentials

**Cellular Landscape**  
**Evolution to 6G**

**IMS and VoLTE/VoNR**  
Essentials

**LTE-EPC**  
Essentials

**NTN direct to Satellite**  
Essentials

## **Executive Introduction Seminars**

Executive Introduction seminars are available on the Evolution to 6G, 5G and 4G Network Technologies, Voice over IMS and NTN.

These compact introduction seminars cover business aspects, deployment status, technology essentials and operational scenarios.

They focus on understanding the added value, growth potential, competition and long term impacts of the technology.

## 2. RAN Technology and Optimization Seminars

### **5G NR Technology**

Radio Interface & Procedures

### **LTE Radio Technology**

Radio Interface & Procedures

### **NR & O-RAN Protocols**

Hands-On

### **LTE Radio Protocols**

Hands-On

### **5G NR Optimization**

Radio Tuning Workshop

### **LTE Radio Optimization**

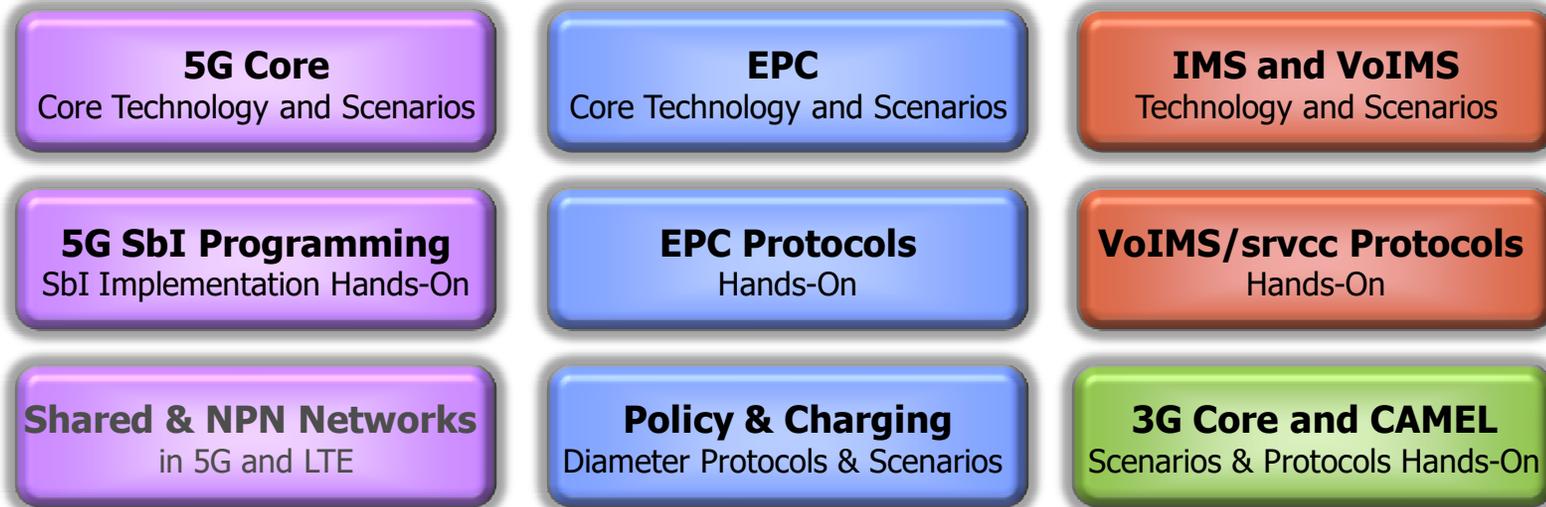
Radio Tuning Workshop

### **RAN Technology and Optimization**

RAN Technology seminars are available for 5G NR, LTE/NG-RAN, UMTS/HSPA and GERAN. The seminars cover RF channels, physical layer procedures, link adaptation & scheduling, radio resource management, mobility and handover scenarios, radio logs analyzing and troubleshooting hands-on.

In the optimization workshop students practice parameters tuning and analyze vendor specific KPI and performance reports.

## 3. Core Technology and Protocols Seminars



### Core Technology and Protocols

Core Technology seminars are available for 5G Core SbI, EPS Core, 3G Core and IN/CAMEL. The seminars cover network architecture and interfaces, end-to-end service scenarios, mobility and roaming scenarios, NAS and core protocols, security contexts, QoS and bearer model, tunneling and user-plane protocols, network logs analyzing and troubleshooting hands-on. IMS Technology seminars cover IMS architecture, 3GPP MMTel SIP and Diameter protocols, voice over IMS (VoLTE/VoNR), end-to-end service and roaming scenarios, SRVCC handover scenarios and IMS/VoIMS logs analyzing hands-on.

## 4. Lawful Interception Workshop

**5GC SbI Interception**  
Scenarios and Hands-On

**5G Radio Interception**  
NR Hands-On

**NTN Technology**  
Interoperability & Integration

**Diameter Interconnect**  
Interception Hands-On

**LTE Radio Interception**  
Hands-On

**NTN Interception**  
Hands-On

**MAP/SS7 Interconnect**  
Interception Hands-On

**GERAN Interception**  
Hands-On

**Roaming Interconnect**  
Interfaces and Scenarios

**Location Services**  
Technology, Protocols, Scenarios

### Lawful Interception

Radio Interception workshops are available for 5G NR and NR-NTN Radio, LTE Radio, UMTS and GERAN.

Core/Interconnect Interception workshops are available for 5G Core, EPS Core and 3G Core.

The seminars cover LI network interfaces and interception relevant aspects of RAN and core technologies.

The interception workshop covers passive and active interception scenarios, analyzing end-to-end network logs, cross-interface tracking and correlation of target location and session identities, mapping between security contexts and derivation of security keys.

## 5. Company Profile

### ● Insight to Cellular

- Insight to Cellular - founded in 1998, provides world-class professional services in the area of mobile communications.
- We offer a unique blend of skills and expertise in multiple disciplines of cellular and data communication technologies, with focus on mobile network protocols, network security, active and passive interception and radio network optimization.
- The customized expert training includes protocol troubleshooting hands-on, network optimization workshops and interception workshops.
- The seminars mediate leading edge knowledge of markets and technologies with focus on the specific needs of R&D and field engineers.

### ● Our Services include

- Customized expert training.
- Technical consulting on system design, protocol software design and product specification.
- Expert opinion, due diligence, patent application and marketing support.