5G Signaling

Protocol Architecture and Processes

Understanding a cellular system requires knowledge of the network architecture, interfaces, and key operations. This 5G training explains the tasks of the network functions of the 5G system (5GS), describes the 5G interfaces, their protocol stacks as well as 5G-specific protocols and explains central procedures as well as signaling flows through the entire 5G system.

Course Contents

- 5G Standardization & Specifications
- 5G Network Architecture & Interfaces
- 5G Identities
- PDU Session & QoS Concept
- New Radio, NG-RAN & 5GC Protocol Architecture
- Radio Resource Control (RRC) Protocol & States
- Non-Access Stratum (NAS)
- GPRS Tunneling Protocol for the User Plane (GTP-U)
- Xn- & NG-Application Protocol (Xn-AP & NG-AP)
- Service Based Architecture (SBA)
- Network Function (NF) Services
- 5G State Management
- Connection, Registration & Mobility Management
- 5G Security Functions & Operations
- Registration & Deregistration
- Tracking Areas Updates
- PDU Session Establishment & Release
- Handover

E-Book The detailed digital documentation package, consisting of an e-book and PDF, is included in the price of the course.

Target Group

This 5G training is designed for anyone who wants to gain an understanding of the network and protocol architecture and signaling flows of 5G.

Prerequisites

Basic knowledge of 5G is essential, such as can be acquired in the 5G Mobile Communications course.

This Course in the Web

You can find the up-to-date information and options for ordering under the following link: www.experteach-training.com/go/**MO5S**

Reservation

On our Website, you can reserve a course seat for 7 days free of charge and in an non-committal manner. This can also be done by phone under +49 6074/4868-0.

Guaranteed Course Dates

To ensure reliable planning, we are continuously offering a wide range of guaranteed course dates.

Your Tailor-Made Course!

We can precisely customize this course to your project and the corresponding requirements.

Training		Prices, excl. of V.A.T.
Classes in Germany	**3 Days**	**€ 2,195**
Online Training	**3 Days**	**€ 2,195**
Date/course venue		Course language German
17/09-19/09/25 München	17/09-19/09/25 Online	

Status 05/07/2025

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