

5G Radio Network Optimization

The course gives an overview about network optimization in general and especially about 5G network optimization. Both, „Non-Standalone“ architecture (NSA) as well as „Stand-Alone“-architecture (SA) are considered.

Target group / Prerequisites

Engineers and technicians involved in network optimization. Participants should have knowledge on 5G and LTE, especially about air interface and signaling.

Course contents

Introduction

- Basics on Radio Network Optimization
- Workflow
- Inputs: PM Counter, Drive Tests, Customer complaints
- Signaling Tracing

NR Coverage and Interference-Optimization

- „New Radio Coverage“ Planning
- Definition of NR measurements
- „New Radio Coverage“-Optimization
- Fault scenarios

Access Problem-Analysis

- 5G network architecture (NSA & SA)
- Access procedures (NSA & SA)
- PM Counter and KPIs
- Signaling analysis
- „Network Access“ fault scenarios

Call Drop-Analysis

- „Call Drop“ Procedures (NSA & SA)
- Counters and KPIs
- „Call Drop“ Analysis & Optimization methods
- „Call Drop“-fault scenarios

Handover-Analysis

- „Handover“ Procedures (NSA & SA)
- Reasons for „Handover“
- Problem-Analysis
- PM Counter and KPIs
- Signaling sanalysis

Throughput-Optimization

- Estimation of data throughput in 5G

Duration:

2 days

Course number:

NW1264

Prerequisites:

Good knowledge of LTE and 5G

- PM Counter and KPIs
- End-to-End View

Certification

Certificates are given to all participants at the end of the course about the successful completion.

Course Registration:

Please contact us via

- phone: +49 89 1894354-405
- email: training@tfk-technologies.de or
- via our website <https://skilleap.com/courses>

You will receive a confirmation of your registration. We can also advise you concerning the best combination of course contents.

For clients with special requirements the optimal training concept can be customized. Modules from our training portfolio can be combined to meet your company-specific needs.