Course ID	Course Title
PNPN	**Private/Non-Public Networks (NPN) Training**
Course Duration	
2-3 days	

Aimed At

Private/Non-Public Networks (NPN) Training is aimed at technical professionals in the commercial, homeland security, or defense sectors.

Prerequisites

Private/Non-Public Networks (NPN) Training requires prior knowledge of LTE and 5G wireless technologies.

Related Courses

- *5G New Radio Training* (5G-NR, 2-3 days)
- *5G Radio Network Technology Training* (5G-NET-TECH, 3-4 days)
- *5G Wireless Training: Layers 1, 2, 3* (5G-TF1, 4-5 days)
- *5G RAN Training: Technology & Planning* (5GTUTE, 5 days)
- *5G Wireless Technology/Applications* (5GTA, 5 days)
- *5G Wireless Priority Services Training* (5G-PRIOR1, 3-5 days)

Course in a Nutshell

This course, *Private/Non-Public Networks (NPN) Training*, takes a dive into Private/Non-Public Networks including topics such as Drivers for Private Networks, Technology Choices for Private Networks, Private 5G Spectrum Usage, Private 5G Models: (38.300), Non-Public Network Deployment Options (23.501 Annex D), PLMN-ID and other Identifiers in Private Networks, Roaming and Mobility in Private Networks, and Private LTE and 5G for Industrial IOT.

Customize It!

We can tailor the included topics, tech level, and duration of *Private/Non-Public Networks (NPN) Training* to your team's technical requirements.

Outline

- *Private/Non-Public Networks (NPN) Training:* Drivers for Private Networks
  - Limitations of Current Solutions
    - Infrastructure, mobility, interference, performance, positioning
  - Advantages of 5G in Private Networks.
    - Radio and Core related
  - Use Cases for Private 5G

- Challenges
  - Including standardization efforts
- Cost and Complexity of Operating a Core Network

- *Private/Non-Public Networks (NPN) Training:* Technology Choices for Private Networks
  - LTE
    - Advantage of Private LTE
    - Security aspects of Private LTE
  - CBRS
  - WiFi
  - MuLTEFire
  - 5G NR-U and NR-LAA

- *Private/Non-Public Networks (NPN) Training:* Private 5G Spectrum Usage
  - Spectrum Requirements
  - Licensed Spectrum
  - Shared Spectrum (CBRS)
    - Spectrum coordination options
  - 5G in Unlicensed Spectrum
    - 5GHz
    - 6GHz

- *Private/Non-Public Networks (NPN) Training:* Private 5G Models: (38.300)
  - SNPN - Standalone Non-Public Networks (23.501)
    - Architecture
    - Identifiers
    - Network Access and Network Selection
  - Public Network Integrated Non-Public Networks (23.501)
    - Architecture
    - Identifiers
    - Network Access and Network Selection

- *Private/Non-Public Networks (NPN) Training:* Non-Public Network Deployment Options (23.501 Annex D)
  - NPN as a Network Slice of PLMN
  - UE Capable of Simultaneous Access to NPN and PLMN

- *Private/Non-Public Networks (NPN) Training:* PLMN-ID and other Identifiers in Private Networks

- *Private/Non-Public Networks (NPN) Training:* Roaming and Mobility in Private Networks

- *Private/Non-Public Networks (NPN) Training:* Private LTE and 5G for Industrial IOT

- *Private/Non-Public Networks (NPN) Training:* Wrap-up: Recap and Discussion

DCN ZkNGf