MPIRICAL

Innovating Telecoms Training

"

Very informative and beneficial, thank you!

"

▶️ Watch our course intro video.

Private 5G Networks

Course Description

Private 5G networks are set to become a key aspect of the mobile telecoms ecosystem, providing network performance, control and coverage characteristics to rival the current private network technologies that are available. This course explores a variety of aspects of Private 5G, beginning with the main concepts and drivers, advantages and challenges. Focus will also be given to spectrum usage for Private 5G, network deployment models and use cases, with particular emphasis on Industry 4.0 and the importance of Time Sensitive Networking.

Prerequisites: None

½ day (Live**Onsite**, Live**Online**)

3 hours learning (Online**Anytime**)

3 CPD Learning Credits

Level: 2 (Intermediate)

This course will contain the following sections:

1. Private 5G Networks

Topic areas covered include:

- 5G for Private Networks:

    - Key Concepts.
    - Advantages of 5G in Private Networks.
    - Flexible Numerology.
    - Ultra-Reliable and Low Latency
      Communication.
    - Improved Spectral Efficiency.
    - Improved QoS.
    - Network Slicing.
    - Support for MEC.
    - API Exposure.

- Private 5G Deployment Considerations:

    - Limitations of Current Solutions.
    - Comparing Private 5G and Wi-Fi 6.
    - Challenges for Private 5G.
    - Private 5G Standardisation.

- Private 5G Spectrum Usage:

    - 5G Spectrum Considerations.
    - Spectrum Requirements.
    - Licensed Spectrum.
    - Shared Spectrum.
    - 5G in Unlicensed Spectrum.

- Private 5G Deployment Models:

    - Standalone Non-Public Networks.
    - Public Network Integrated Non-Public
      Networks.

- Private 5G Use Cases:

    - Use Cases Overview.
    - Transport and Logistics.
    - Mining.
    - Agriculture.
    - High-Capacity Venues.
    - Industry 4.0.

- Time Sensitive Networking and 5G:

    - TSN Basics.
    - 5G Support for TSN.

**Watch a Sample
Video Online**

1/2 **day**
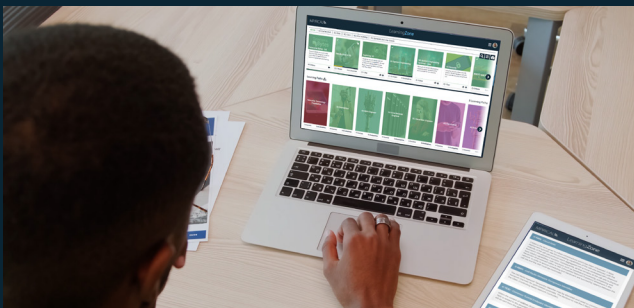(Live**Onsite,**
Live**Online)**

3 **hours
learning**
(Online**Anytime)**

3
**CPD Learning
Credits**

Live**Onsite,** Live**Online,**
Online**Anytime**

Explore the
LearningZone

our unique learning experience platform.

Access a world of learning resources at your fingertips, including:

- **Mpirical courses and quizzes**
- **Technology and learning blogs**
- **Virtual network application, NetX**

...and so much more!

Watch this short video to learn more about the LearningZone or **contact us** for a **FREE** demo.

Applied Learning
with NetX

A truly **unique network visualisation tool** and network diagram for applied learning. This interactive learning tool is a game changer for getting under the skin of your network.

Included with all learning options.

Explore NetX Online