MPIRICAL

Innovating Telecoms Training

"

Best course I've come across on LTE.

"

🎥 Watch our course intro video.

Introduction to LTE

Course Description

LTE is now widely established as a mobile broadband solution on a global basis. This short course aims to provide a concise synopsis of how LTE operates, focusing on the driving factors behind LTE, as well as the architectural view of an LTE deployment. Operational procedures such as network attach and bearer utilization will be examined, as well as key mobility and roaming considerations. Finally, LTE voice solutions will be highlighted, with focus on CSFB and VoLTE.

This course has no prerequisites.

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

3 hours learning (Online**Anytime**)
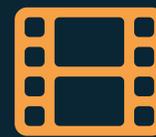
3 CPD Learning Credits

Level: 1 (Beginner)

This course will contain the following sections:

1. Introduction to LTE

Topic areas covered include:

- LTE Concepts and Drivers:
    - Key Drivers.
    - LTE Standardization.
    - LTE and 5G.

- LTE Network Architecture – Part 1:
    - High Level LTE Architecture.
    - EPS Bearers.
    - LTE Identification.
    - LTE RAN.

- LTE Network Architecture – Part 2:
    - Tracking Areas.
    - EPC Components.
    - Control and User Plane Separation.

- LTE Air Interface:
    - LTE Radio Bands.
    - Key LTE Air Interface Techniques.

- Initial LTE Network Procedures:
    - Finding the Network.
    - Attaching to the Network.

- Utilizing the LTE Network:
    - Idle and Connected Mode.
    - Moving to Idle.
    - Getting Connected – Service Request.
    - Paging.

- LTE Mobility:
    - Tracking Area Updates.
    - Handovers.

- Interconnect and Roaming:
    - Interconnect.
    - Roaming.

- Voice Services in LTE:
    - Voice Options.
    - Circuit Switched Fallback.
    - VoLTE.

**Watch a Sample
Video Online**

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3
**CPD Learning
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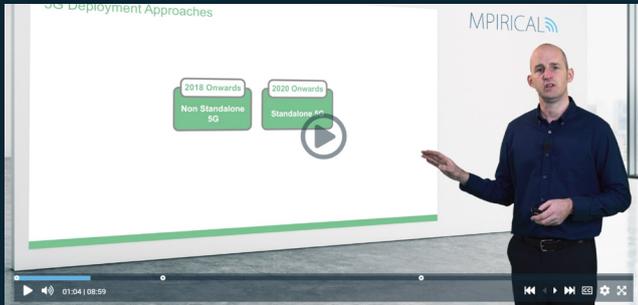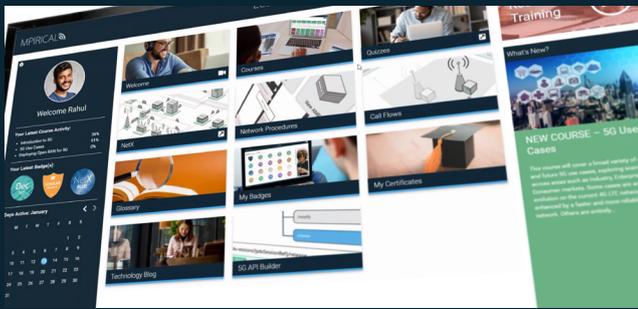Online**Anytime**

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Learning**Zone**

our unique learning experience platform.

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- **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 Learning**Zone** or **contact us** for a **FREE** demo.
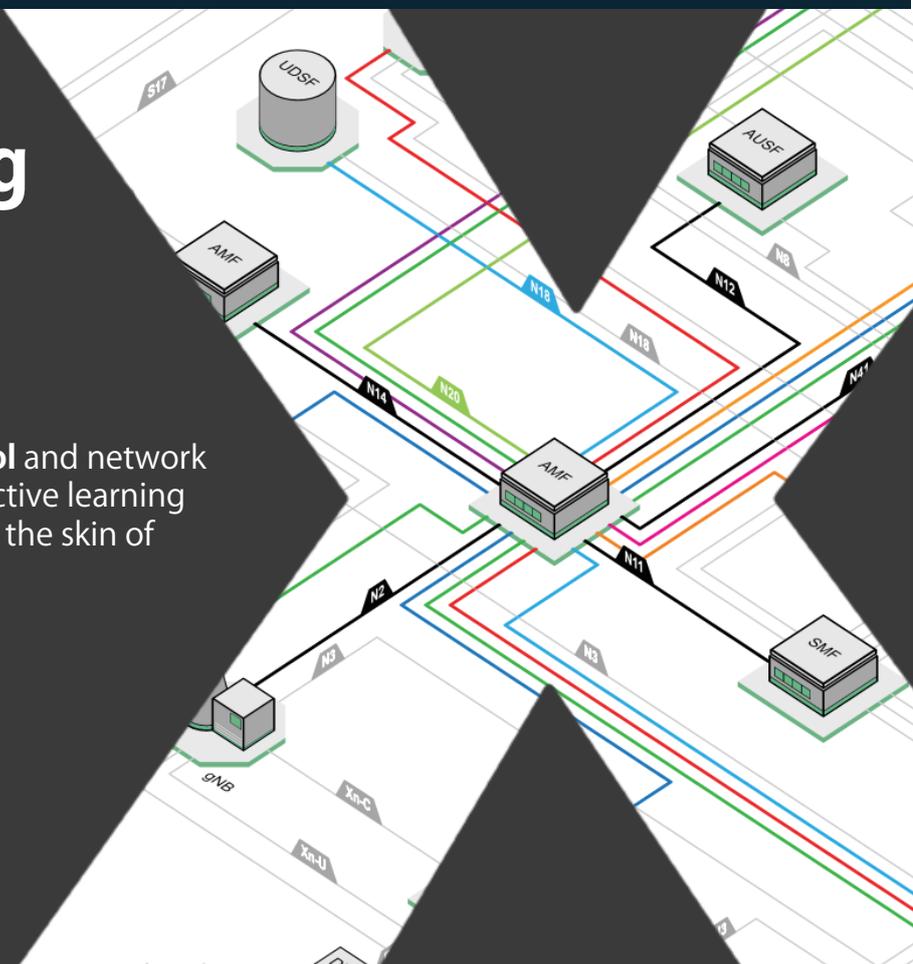
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with Net**X**

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 Net**X** Online