MPIRICAL

Innovating Telecoms Training

"

Excellent technical knowledge and presentation / facilitation skills.

"

Watch our course intro video.

Deploying Open RAN for 5G

Course Description

The Open RAN deployment model adopts a new approach for building the Radio Access Network, within 5G but also earlier generations of technology. This course seeks to explore the concepts of Open RAN, outlining key terminology and standardization efforts. In addition, the course will provide focus on the architecture of an Open RAN deployment, examining the CU/DU/RU split, the associated protocols and the role of the O-RAN Alliance RAN Intelligent Controllers.

This course has no prerequisites.

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. Deploying Open RAN for 5G

Topic areas covered include:

- Open RAN Key Concepts:
  - Open RAN Design Goals.
  - Open RAN Terminology and Standards.
  - Potential Drawbacks of Open RAN.

- Understanding the RAN Ecosystem:
  - Controller Centric RAN Deployments.
  - C-RAN and 4G.
  - C-RAN and 5G.

- Open RAN Architecture – 3GPP Split 2:
  - Protocol Disaggregation Summary.
  - Split 2 Protocols and Interface.
  - F1 Reference Point.

- Open RAN Architecture - O-RAN Split 7-2x:
  - 5G Physical Layer Processing.
  - Split 7-2x Detail.
  - Transport Protocols for Split 7-2x.
  - eCPRI.
  - RoE (IEEE 1914.3).

- O-RAN Alliance Architecture:
  - High Level Functional O-RAN Architecture.
  - Service Management and Orchestration.
  - SMO O1 Interface.
  - SMO O2 Interface.

- O-RAN Alliance RAN Intelligent Controllers:
  - Non Real Time RIC.
  - Non-RT RIC rApp Example.
  - Near Real Time RIC.

**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**

Managed Learning Services

As part of our managed learning service we can offer you and your organisation a full range of services including:

mpirical.com/about-us/managed-learning-services

- Bespoke content and courseware development
- Product specific training packages, including product updates
- Dedicated trainers to understand your products and training requirements
- Managed training delivery services – administrative aspects including scheduling and liaison
- Customizable learning management system
- Traditional classroom, virtual classroom or video based online learning options

NetX

The Mpirical Network Visualisation Solution: **NetX Bringing Telecoms to Life!**
Imagine the benefits of having an entire mobile network available from your desktop.

- Where you can view a complete network map.
- Watch call flows across the network.
- Investigate network procedures.

NetX does this... and even more with our NetX customization options!
NetX is not just a learning aid, it is a valuable resource in the day to day activities of any telecoms professional and has been spotlighted as such by the 3GPP.

Explore NetX further at www.mpirical.com/netx

+44(0)1524 844669   enquiries@mpirical.com   **www.mpirical.com**