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Innovating Telecoms Training

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MEC and 5G Networks

Course Description

Multi Access Edge Computing is set to be a key enabler for future services based on 5G. This course shows how the two technologies work with one another, outlining the basic concepts before exploring the standardised MEC architecture, both from an ETSI and 3GPP perspective. Focus is given to the System and Host Level components, before detailing how MEC integrates with the 5G Service Based Architecture. 5G techniques and technologies which MEC will exploit will then be discussed, with consideration given to AF Influenced Traffic Routing, LADNs, Uplink Classifiers, Branching Points and SSC.

This course has no prerequisites.

1/2 day (LiveOnsite, LiveOnline)

4 hours learning (OnlineAnytime)

4 CPD Learning Credits

Level: 2 (Intermediate)

This course will contain the following sections:

1. MEC Concepts and Architecture

Topic areas covered include:

- MEC Deployment:
  - Overview.
  - MEC Application Functions.
  - MEC Example Scenario.
- MEC Key Concepts:
  - Connectivity Models.
  - Local Access to the Data Network.
  - Standardization of MEC.
- ETSI MEC Framework and Architecture:
  - ETSI MEC Framework.
  - ETSI MEC Reference Architecture.
  - 5G and ETSI MEC Integration.
- ETSI MEC Procedural Aspects:
  - Application Package On-Boarding.
  - Application Instantiation.
- 3GPP Edge Computing Architecture:
  - MEC and 3GPP High Level Architecture.
  - Integration with the 5G Core.
- 3GPP Edge Computing – Initial Procedures:
  - ECS Discovery.
  - Service Provisioning.
  - Registration.
  - EAS Discovery.
- 3GPP Edge Computing – Operational Aspects:
  - EAS Instantiation.
  - Application Context Relocation.

2. MEC and 5G Enablers

Topic areas covered include:

- 5G Enablers for MEC – Local Networks:
  - AF Influenced Traffic Routing.
  - Traffic Steering Control.
  - Local Area Data Networks.
- 5G Enablers for MEC – UL CLs and BPs:
  - Uplink Classifiers.
  - 5G Uplink Classifier Addition Procedure.
  - IPv6 Multi-homing (Branching Points).
- 5G Enablers for MEC – SSC Modes:
  - SSC Overview.
  - SSC Mode 1.
  - SSC Mode 2.
  - SSC Mode 3.
  - UEs and MEC Application Mobility.

Watch a Sample Video Online

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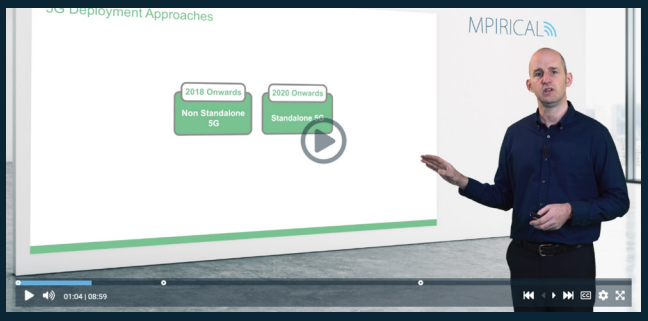
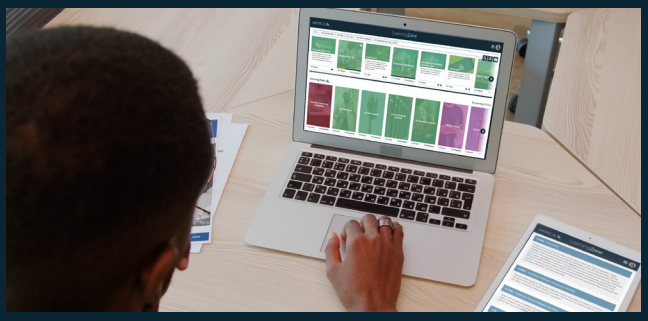
LiveOnsite, LiveOnline, OnlineAnytime





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- **Technology and learning blogs**
- **Virtual network application, NetX**

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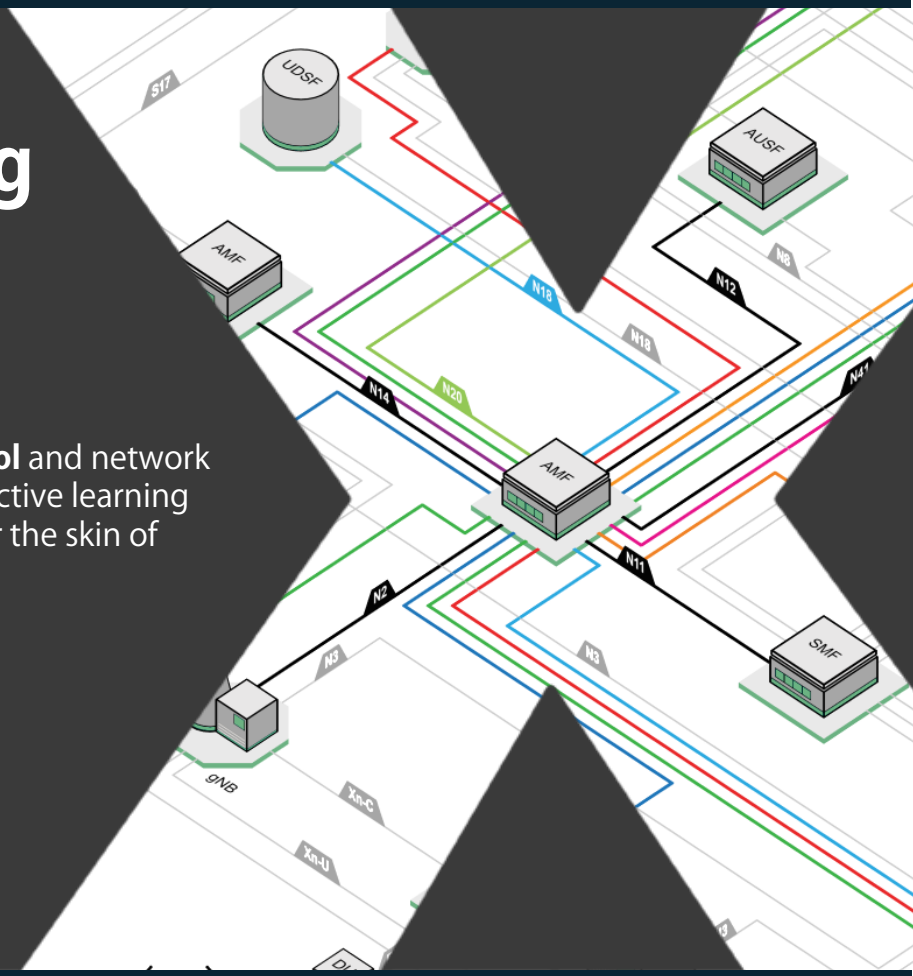

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