Mission Critical Services

Course Description

Providing a platform for Mission Critical communications and services is a key priority. The use of LTE functionality and capabilities has greatly assisted this with the support of MCPTT (Mission Critical Push To Talk), MCData (Mission Critical Data) and MCVideo (Mission Critical Video) features standardized by 3GPP. Many of these features are applicable to Mission Critical services over 5G. This short course will provide an overview of the components of the Mission Critical communication system, the available Mission Critical Services and the associated procedures.

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. Mission Critical Services

Topic areas covered include:

- Introduction to Mission Critical Services:
    - MC Use Cases.
    - Mission Critical Drivers.
    - Mission Critical Service Types.
    - Mission Critical 3GPP Releases.
    - Plugtest for MC Services.

- Enablers for Mission Critical Services - Part 1:
    - Key Mission Critical Services Enablers.
    - LTE (Long Term Evolution).
    - GCSE (Group Call System Enablers).
    - On Network and Off Network Concept.
    - ProSe (Proximity Services).

- Enablers for Mission Critical Services - Part 2:
    - IOPS (Isolated LTE Operation for Public Safety).
    - eMBMS (Enhanced Multimedia Broadcast/ Multicast Service).
    - IMS (IP Multimedia Subsystem).

- Mission Critical Communication System:
    - Mission Critical Architecture.
    - Common MC Service Functions.
    - Mission Critical Device.
    - Mission Critical Identities.

- LTE Aspects of Mission Critical Services:
    - Mission Critical LTE Architecture.
    - LTE PDN Connection.
    - Default and Dedicated EPS Bearers.
    - QoS Class Identifier.
    - Service Provider Deployment Scenarios.

- Mission Critical Push to Talk (MCPTT) Registration:
    - High Level MC Registration.
    - MCPTT Server.
    - MC Identification.
    - MC IMS Registration.
    - MC Configuration Management.

- MCPTT Calls – Part 1:
    - MCPTT Call Procedures.
    - Mission Critical Signalling and SIP.
    - Mission Critical MCPTT Group Calls.

- MCPTT Calls - Part 2:
    - Floor Control.
    - Private Calls.
    - Emergency / Imminent Peril Calls.
    - Ambient Listening Calls.
    - Interworking.

- Mission Critical Data (MCData):
    - MC Data Services and Capabilities.
    - MCData Architecture.
    - Short Data Service.
    - SDS Data Transfer Example.
    - File Distribution.
    - Data Streaming.

- Mission Critical Video (MCVideo):
    - MCVideo Services and Capabilities.
    - MCVideo Architecture.
    - Group and Private Video Call Procedures.
    - Broadcast Group Video Call.
    - Private Video Call Procedures.
    - Video Pull and Push.
    - Ambient Viewing.

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

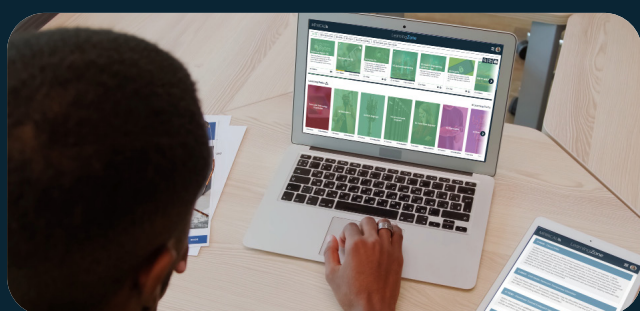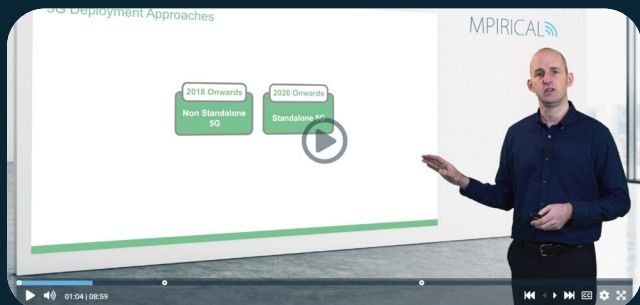**3 hours learning** (Online**Anytime)**

3 CPD Learning Credits

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

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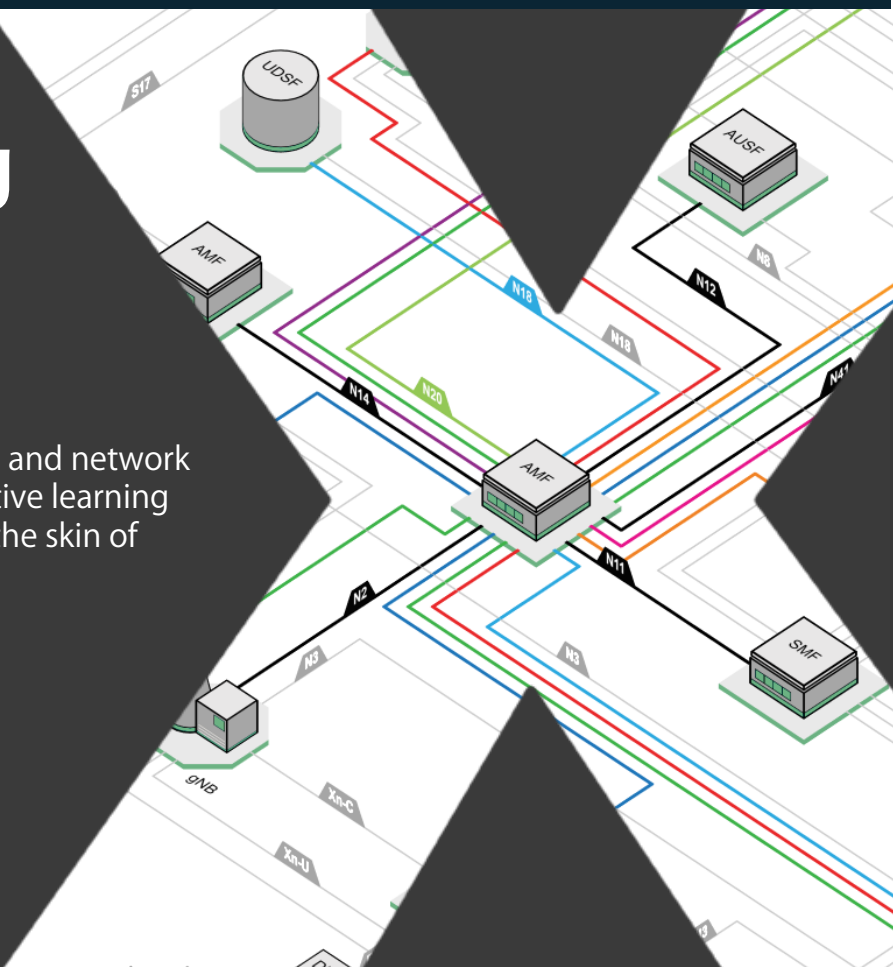
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