

Essential 5G (and 4G) private networks

A 1 day training course



Description

This course describes the in demand private 5G network environment, explaining different scenarios for private cellular with or without integration to public networks and possible deployment environments, along with 4G.

We discuss available spectrum solutions and hosting environments, spectrum sharing and core network slicing options.

Whether this is a factory of the future, a mission critical deployment of just office integration we will explain the essentials.



Key outcomes

By the end of the course delegates will be able to:

- ✓ Recognise the various private network deployment scenarios
- ✓ Explain network slicing to isolate specific use cases
- ✓ Describe industrial IoT requirements
- ✓ Explain how a private network can assist in coverage shortfalls in public networks



Training approach

This structured course uses Instructor Led Training to provide the best possible learning experience. Small class sizes ensure students benefit from our engaging and interactive style of teaching with delegates encouraged to ask questions throughout the course. Quizzes follow each major section allowing checking of learning.



Details

Who will benefit?

Anyone working in mobile communications.

Prerequisites

Essential 5G

Duration: 1 day

Customer rating: New course

Generic training	Small class sizes	Hands On training	Our courseware	Customise your course
<p>Generic training complements product specific courses covering the complete picture of all relevant devices including the protocols "on the wire".</p>	<p>We limit our maximum class size to 8 delegates; often we have less than this. This ensures optimal interactivity between delegates and instructor.</p>	<p>The majority of our courses use hands on sessions to reinforce the theory.</p>	<p>We write our own courses; courseware does not just consist of slides and our slides are diagrams not bullet point text.</p>	<p>Please contact us if you would like a course to be customised to meet your specific requirements. Have the course your way.</p>
<p><i>"Friendly environment with expert teaching that teaches the why before the how."</i> G.C. Fasthosts</p>	<p><i>"Excellent course. The small class size was a great benefit..."</i> M.B. IBM</p>	<p><i>"Not many courses have practice added to it. Normally just the theoretical stuff is covered."</i> J.W. Vodafone</p>	<p><i>"Comprehensive materials that made the course easy to follow and will be used as a reference point."</i> V.B. Rockwell Collins</p>	<p><i>"I was very impressed by the combination of practical and theory. Very informative. Friendly approachable environment, lots of hands on."</i> S.R. Qinetiq</p>

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Course content

What are the advantages of a Private 5G Network?

- Wireless
- Network slicing
- Control
- Latency
- Bandwidth
- Security

What are the use cases?

- Industrial IoT (IIoT)
- Mission-Critical PTT capabilities
- Remote and underserved locations

What are the challenges?

- Spectrum
- 5G New Radio (5G NR)

What is the licensing situation?

- UK
- US
- MulteFire
- 3GPP Release 16

Where are we now?

- Early trials
- First trials of robotic control production
- Daimler trial
- Korea trials

What's next?

- Shared spectrum licenses
- Ofcom's three-year licence
- Open RAN facilities

What our customers say

"Absolutely brilliant, very knowledgeable and helpful trainer would recommend to teach anyone. Kept me interested 100% of the time which is very impressive as this does not happen often, if at all!"

O. B. Network Rail

"The best technical course I've been on!"

L. W. Fujitsu Telecoms Europe

"Very well thought out and structured course. Would recommend 100%. Lots of equipment, good quality."

A.R. Unipart

"Course content is interesting. Relevant to current systems and presented well."

S.S-T. Arqiva

