



Thank you! Looking forward to other detailed sessions on 5G in the future.



Watch our course intro video.



C-RAN for 5G

Course Description

The application of virtualization solutions to the 5G NG-RAN is a key initiative for 5G deployment. This short course details the concepts behind C-RAN (Centralized RAN) for 5G, including focus on the 3GPP architectural options. Key procedures are also examined, outlining how UE initial access, handovers and dual connectivity are influenced by C-RAN. Finally, the course explores alternative solutions to 3GPP C-RAN, in addition to NG-RAN transport network considerations.

This course has no prerequisites.

1/2 day
(LiveOnsite,
LiveOnline)

3 hours
learning
(OnlineAnytime)

3

CPD Learning
Credits



Level: 2
(Intermediate)

This course will contain the following sections:

1. C-RAN for 5G

Topic areas covered include:

- C-RAN Concepts.
- 3GPP 5G C-RAN Architecture:
 - Separation of gNB-CU.
 - EN-DC Configuration for 5G C-RAN.
 - Xn Reference Point.
 - F1 Reference Point.
 - F1 Protocol Stack Split.
- 5G C-RAN Procedures:
 - UE Initial Access Procedure.
 - Intra gNB-CU Handover.
 - Dual Connectivity (EN-DC).
- Alternative C-RAN Technologies:
 - eCPRI.
 - IEEE 1914.
 - Additional Initiatives.
- NG-RAN Transport Network:
 - Midhaul Considerations.
 - Fronthaul Considerations.
 - Overall Bandwidth Requirements.
 - Transport Network Design.



**Watch a Sample
Video Online**

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

3 hours
learning
(Online**Anytime**)

ITP

**ITP accredited
course**



LiveOnsite**, Live**Online**,
Online**Anytime****



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