



Amazing technical knowledge and retention of facts. Thank you again.



Watch our course intro video.

Rich Communication Services

Course Description

This course focuses on the GSMA's Rich Communication Services global initiative and in so doing provides a comprehensive understanding of the methodologies by which these services will be controlled and delivered across an IMS network. This includes the real-time services of voice, video and messaging, in addition to reviewing how services such as geolocation, converged address book and Social Presence are implemented.

Prerequisites: IMS and PCC System Engineering.

1 days
(LiveOnsite,
LiveOnline)

6 hours
learning
(OnlineAnytime)

6

CPD Learning
Credits



Level: 2
(Intermediate)

This course will contain the following sections:

1. Introduction to RCS

Topic areas covered include:

- What is RCS?
- Drivers for RCS:
 - Challenges for RCS.
 - Areas of Consideration for Service Providers.
- Standardization.
- IMS Overview.
- RCS Architectural Requirements:
 - RCS Devices.
 - RCS Implementation Options.
- RCS Initial Procedures:
 - IMS Registration.
- RCS Services:
 - Standalone Messaging.
 - IP Voice Call.
 - IP Video Call.
 - Social Presence Information.

2. RCS Initial Procedures

Topic areas covered include:

- First Time Provisioning.
- Establishing IMS Connectivity.
- Client Provisioning:
 - OMA Device Management.
 - HTTP Based Configuration.
 - Triggers for Providing Configuration.
 - Secondary Devices.

RCS Initial Procedures (cont.)

- IMS Registration.
- RCS User Capability Discovery:
 - User Capability Discovery – SIP OPTIONS.
 - User Capability Discovery – OMA Presence.

3. Real Time Communications

Topic areas covered include:

- Real Time Communications in RCS:
 - Basic Architectural Requirements.
- RCS IP Voice Service:
 - IMS Multimedia Telephony Service.
 - VoLTE Call Establishment (Mobile Originated).
 - VoLTE IMS Signalling Analysis.
 - Mobile Terminated Call.
- IP Video Calling Service.
- IP Video Call Procedures.
- Real time Transport Protocol:
 - RTP Header.
 - RTP Control Protocol.
 - RTP Data Rates.
- RCS Messaging:
 - Standalone Messaging.
 - Message Delivery Process.
 - 1 to 1 Chat1.
 - Group Chat.

6

**CPD Learning
Credits**

ITP

**ITP accredited
course**



**LiveOnsite, LiveOnline,
OnlineAnytime**

4. Enhancing RCS Services

Topic areas covered include:

- File Transfer:
 - Audio Messaging.
- Content Share:
 - Phase 1 Video Sharing (Ongoing CS Call).
 - Phase 2 Video Sharing (Outside of Call).
- Geolocation Services:
 - Geolocation Push Service.
 - Geolocation Pull Service.
- OMA Converged Address Book:
 - CAB Architecture.
 - CAB Procedures.



5. Social Presence

Topic areas covered include:

- Social Presence Information:
 - Architectural Requirements.
 - Social Presence Protocols.
- Distributing Social Presence Information:
 - Subscribing to a Presentity's Presence Information.
 - Resource List Servers.
 - Watcher Information.
 - Publishing Presence Information.
 - Presence Data Model.
 - Presence Information Processing.
 - Notification.
- Minimizing Social Presence Signalling.



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+44(0)1524 844669



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