

# IMS

COURSE OUTLINE



## COURSE DETAILS

### Training Duration: 1/2 Days

#### IMS

One of the best training in IMS courses by industry specialist is given by Premcell IMS IP multimedia subsystem training is provided with latest technology at Premcell IP multimedia subsystem Institute. IMS coaching is for those who want to learn about interface and protocols.

##### 1. IMS Introduction

- IMS Introduction and concepts
- Introduction to IP Multimedia Subsystem (IMS)
- The business drivers for IMS
- IMS Opportunities and Challenges
- Benefits of IMS
- IMS Standardization
- IMS Layers - Access Layer, Transport Layer, Control Layer, Application Layer
- High Level architecture of IMS

##### 2. IMS Interfaces and Protocols

- CSCF-Proxy, Interrogating, serving
- HSS - Home subscriber server
- IMS specific Identifiers – IMS Identifiers – IMPI, IMPU, SIP URI, TEL URI
- DNS/ENUM
- MGCF & IM-MGW
- MRF-MRFC & MRFP
- Session Border Controller - SBC
- E-CSCF

### Training Duration: 1 Days

#### IP Multimedia Subsystem

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- E-CSCF

## 3. IMS Access Solution

- VoLTE
- VoWifi
- PES

## 4. IMS Protocols

- SIP/SDP
- Diameter

### Duration: 2 Days

#### **IMS Introduction**

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**IMS Interfaces and Protocols**

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**IMS Access Solution**

- VoLTE
- VoWifi
- PES

**IMS Protocols**

- SIP/SDP
- Diameter
- RTP
- H.248

**1. Application Server in IMS**

- Function of AS in IMS solution
- MMTEL Server
- Example of MMTEL services

**2. Call Flows**

- UE Registration
- IMS Subscriber to IMS Subscriber
- IMS to SS7 Subscriber
- SS7 Subscriber to IMS

**Duration of Training 4 Days****1. IMS Evolution, Architecture and concepts**

- IMS Introduction and concepts
- Introduction to IP Multimedia Subsystem (IMS)
- The business drivers for IMS
- IMS Opportunities and Challenges
- Benefits of IMS
- IMS Standardization
- Fixed Mobile Convergence
- IMS Layers - Access Layer, Transport Layer, Control Layer, Application Layer
- High Level architecture of IMS

## **2. IMS Access Solution**

VoLTE

VoWifi

PES

## **3. IMS Core (Detailed)**

IMS Core Architecture and Network elements

Numbering and addressing –IMPI,IMPU,SIP URI,TEL URI

IMS Interfaces and Protocols

CSCF-Proxy,Interrogating,serving

HSS - Home subscriber server

IMS specific Identifiers – IMS Identifiers – IMPI,IMPU,SIP URI,TEL URI,PSI

DNS/ENUM

MGCF & IM-MGW

MRF-MRFC & MRFP

IMS Basic call Flow – MO/MT

Session Border Controller - SBC

E-CSCF

## **4. IMS Protocols**

SIP/SDP

Diameter

H.248

RTP

## **5. Application Server**

Function of AS

MMTEL Server

Example of MMTEL services

IP-SM-GW

IM-SSF

## **6. Charging in IMS**

Overview of charging

IMS Use cases

Offline Charging concept

online charging concept

CDR's

## **7. Call Flows**

UE Registration

IMS user to IMS user

IMS to SS7 user

SS7 User to IMS