

**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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### **3. IMS Access Solution**

VoLTE

VoWifi

PES

### **4. IMS Protocols**

SIP/SDP

Diameter

### **Duration: 2 Days**

#### **IMS Introduction**

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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