



ADVANCED LEVEL TELECOM TRAINING

Consumer Fixed Access(CFA) FACULTY



The objective of the CFA Faculty is to impart high quality training in Class-4 and Class-5 Soft switches of Next Generation Network and Standalone Signal Transfer Point (SSTP) for telecom network operators and service providers.

The aim is to impart training for migration from legacy TDM switching system to latest Next Generation Network (NGN) switches based on IP technology and NGN protocols to students while in their 3rd or 4th year of B.Tech. / B.E. engineering program and working professionals so that they acquire/enhance their knowledge and skills which are required by various organizations in the competitive telecom sector.

To achieve this, CFA Faculty has well equipped training laboratory with latest equipments such as Class-4 NGN Trunk Automatic Exchange (IP-TAX), IP Multimedia Subsystem (IMS) based Class-5 NGN, Class-5 Soft Switch based C-DoT MAX NG and Standalone Signal Transfer Point (SSTP). The trainees are given hands-on exposure on the testing, operations & maintenance of the equipment.

The course content varies from basic aspects to trouble shooting techniques. The course content is designed keeping in view the technological changes and advancements. Courses can also be customized depending on market/organizational requirement. Trainees are also taken to nearby telecom installations to see live telecom traffic in live exchanges.

CFA faculty comprises of telecom engineers having 8 to 30 years of experience of Operation and Maintenance of TDM technology based switching system, NGN switches and SSTP deployed in BSNL.

Image 1:SSTP



Image 2:SSTP Modules



Image 3:SSTP connectivity through LAN Switches



Training Labs

Training Lab	Equipments	Make
IP Multimedia Subsystem (IMS) based Class-5 Next Generation Network (NGN)	Call Session Controller (CSC), Home Subscriber Server (HSS), Advance Telephony Server (ATS), Session Border Controller (SBC), Line Media Gateways(LMGs) and LAN Switches etc. LMGs etc.	M/s Huawei
Class-4 NGN Trunk Automatic Exchange (IP-TAX),	Soft Switch(SS) Application Server(AS), Media Server(MS), Signaling Gateway (SG), Trunk Media Gateway (TMG), LAN switches & Routers	M/s ZTE
Class-5 Soft Switch based C-DoT MAX NG	Soft Switch (SS), Central Access Control Unit (CACU), Line Access Gateway Unit (LAGU) and LAN switches etc.	C-DoT(India)
Standalone Signal Transfer Point (SSTP)	Communication Sub System, Application Sub System, Maintenance & Administration System (MAS), iSG6400 (Integrated Signaling Gateway 6400) and LAN Switches	M/s UTStarcom

Testing & Measuring Instruments

ISUP / CCS#7 Protocol Analyzer

Courses Offered by CFA Faculty:

S. No.	Name of the course	Topics to be covered	Duration * (Days)	Course Fee** per trainee (GST @18% Extra)	Remark
1.	IP Multimedia Subsystem (IMS) Class-5 NGN	<ul style="list-style-type: none"> - CSCF, ATS & HSS - SBC, iCG - LMG, LSW & eMS - Configuration of Node/Elements - Creation of subscriber & Analysis - System Backup, Restoration & Mtce. Activities - IMS Value Added Services - Network Analysis & Performance Management (KPIs) 	5 days	10,000/-	Lab-based course
S. No.	Name of the course	Topics to be covered	Duration * (Days)	Course Fee** per trainee (GST @18% Extra)	Remark
2.	Signaling & SSTP in Telecom Network	<ul style="list-style-type: none"> - CCS#7 Signaling. - SSTP function - H/W Architecture of SSTP - Operation of SSTP - MNP implementation with SSTP 	2 days	5,000/-	Lab-based course
3.	C-DoT MAX NG	<ul style="list-style-type: none"> - Soft Switch - CACU function - LAGU function, LSW & Ems - Configuration of LAGU & CACU - Subscriber Management & Analysis - System Maintenance Activities 	3 days	7,500/-	Lab-based course
4.	Advance PM Module of SAP-ERP	<ul style="list-style-type: none"> - Maintenance Notification - Maintenance Order - Internal & External Process of Mtce - AMC gathering and Contracts - Scrapping & Decommissioning 	3 days	7,500/-	Lab-based course

List of telecom switching projects/ mini projects at ALTTC:

S. No.	Name of Topic
1.	Network Planning and Deployment of Class-5 NGN (C-DoT MAX NG)
2.	Call Scenarios in NGN including Video calling through Class-5 NGN (IMS)
3.	Network Design Aspects of Class-5 NGN (IMS) / NGN Deployment & Migration Strategies

*** Lodging & Boarding facilities are available in ALTTC Campus on payment basis.
Please visit our website for more details.**

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