



Engineering Staff College of India

Autonomous Organ of The Institution of Engineers (India)
Old Bombay Road, Gachi Bowli, Hyderabad – 500 032. Telangana, India



INFORMATION TECHNOLOGY DIVISION

PROFESSIONAL DEVELOPMENT PROGRAM

Network Administration

Configuring and Securing LANs and WANs

23 – 27 Sept 2024

(Offline Training)



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Introduction

These days computer networks are pivotal role in modern communication. The scope of communication has increasing significantly in the past decades, and this boom in communication would not have been possible without advancing in computer network. Computer networks and Security technologies needed to connect and communicate through and between them, to continue drive computer hardware, software, and peripheral industries. The evolution of enterprise architectures and business growth, are go with understanding network design, architecture.

The 30 Hours Online programme on “**Network Administration: Configuring and Securing LANs & WANs**” is an intensive hands-on practical course is designed to provide the complete connectivity on LAN & WAN and implementing Network Security.

Objective

- Course will enable to gain the knowledge in Network Administration.
- Training provides enhance the skills to Configure, Manage, Monitor and Troubleshoot Enterprise Nnetwork

Course Coverage

- Computer Networks & Topologies
- About OSI/OSI Layers
- Transmission Media
- Ethernet & Network Communication
- Communication Protocols
- IP Addressing & Subletting (VLSM & CIDR)
- Network Devices & Establishing the Network
- TCP / IP Services & Server Roles
- CISCO Devices & Router Components
- Router Fundamentals
- Basic Router Configuration
- IP Routing, Static & Default Routing
- Dynamic Routing : RIP, IGRP
- Dynamic Routing : OSPF, EIGRP
- Managing IP Traffic Using Access Control List
- Types of WAN Connections
- WAN Serial Point to Point Connections
- Describe DNS lookup Operation, & DNS Issue,
- Configure and verify DHCP on a Router.
- DHCP connectivity issues,
- NAT & PAT
- Switching
- Configuring Virtual LAN's (VLAN)
- Remote Access Methods
- Configure, verify, GRE tunnel connectivity
- Virtual Network Connection (VPN)
- Configuring Wireless LANs & Security
- Configuring Firewalls for Network Security
- Network Monitoring Tools – Nmap, Wireshark
- Working with IPV6
- Network Troubleshooting

Methodology

Methodology of the programme includes class room sessions with Lecture / Discussion with Hands- on Practical, with tools, audio visual aid, bench marked video shows, Chalk & Talk sessions, group discussions, case studies, debates, sharing of experiences etc. All the sessions will be interactive demanding active participation from all the members.

(An ISO 9001:2015 Certified, AICTE & CEA Recognized Institution)

Centre for Promotion of Professional Excellence

Target Participants

- ❖ System Engineers / System Administrators / Network Administrators
- ❖ Programmers / Technical staff working in Computer / Network Maintenance Departments
- ❖ Engineers / Officers working in Govt, Defence, Public and Private sector organization.

Benefits to the participants

- ❖ Participant will be able to manage and troubleshoot Network Infrastructure very effectively by analyzing live cases.
- ❖ Rear opportunity for experience sharing among numbers of guest speakers and experts from various organizations from all over India.

Programme Dates & Timings

Dates: 23 – 27 Sept 2024 (6 Hours per day)

Venue for Offline Training: Engineering Staff College of India, Gachibowli, Hyderabad

Session timings will be from 10:00 – 17:00 hrs with 15 Minutes Tea break. One Hrs Lunch Break

Course Director

Mr. Syed Azgar, MBA(IT), RHCE, MCSA

Sr Faculty & Head IT,

Information Technology Division,

Engineering Staff College of India, Hyderabad.

Course Fee for Offline Training

- ₹ **27,500/- (Residential Fee)** per participant. Fee includes course material, course kit, Single AC accommodation as per availability, Breakfast, Lunch, Dinner, Tea / Coffee and Snacks during the actual days of the training program

Course Fee for Online Training

- ₹ **17,500/-** Participant. Fee includes 3 Months LMS Platform Access for Digital Learning, 18 Hours Live Interactive Sessions, Experts Online Support and Reading Material Softcopy.

GST @18% is to be paid extra and above the training fee as training. **PAN Card No.** AAATT3439Q. **GST No:** 36AAATT3439Q1ZV, **HS No.:** 999293 (under commercial training or coaching services – clause 65(105) (ZCC) of Finance act – 1994)

Note: 18% GST Extra (GST Nil for All State & Central Govt. Departments like DRDO, DGQA & Other Govt. Departments).

Programme fee is to be paid in in favour of “**THE INSTITUTION OF ENGINEERS (INDIA) – ENGINEERING STAFF COLLEGE OF INDIA**” by **Electronic Fund Transfer (EFT)** to ESCI – **Axis Bank A/c No. 912010049234564** with The Axis Bank Ltd, Old Mumbai Hwy, Cyberhills Colony, P Janardhan Reddy Nagar, GachiBowli Hyderabad-500032 by NEFT/ RTGS/ IFSC Code No. UTIB 0000733 – MICR No.500211020. **While using EFT method of payment, please ensure to communicate us your company name, our invoice reference and programme title.**

Registration

Online registration shall be available on ESCI **web portal** <http://www.escihyd.org/index.php/it-upcoming-trainings>

To register manually please send your nominations giving details of name, designation, contact address, email address, mobile no, telephone and fax number of the participant along with the details of mode of payment of fee, addressed to : it@escihyd.org

A Certificate of participation will be awarded to each participant on conclusion of the programme.

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