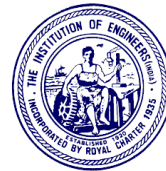# Engineering Staff College of India

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

ESCI

INFORMATION TECHNOLOGY DIVISION

CONTINUING PROFESSIONAL DEVELOPMENT PROGRAMME

Network Security Administration

(Configuring and Securing LANs & WANs)
06 – 10 Nov 23
(Classroom Training)

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Introduction

The world is becoming more interconnected with the advent of the Internet and new networking technology. Network security is becoming of great importance because of intellectual property that can be easily acquired through the internet. Security is crucial to networks and applications. Although, network security is a critical requirement in emerging networks, there is a significant lack of security methods that can be easily implemented.

Security Administrator provides an understanding of the concepts and skills necessary to configure Firewall Security Gateway and Management Software Blades. During this course you will configure a Security Policy and learn about managing and monitoring a secure network. In addition, you will upgrade and configure a Security Gateway to implement a virtual private network for internal, external, and remote users.

Objectives

- Course will enable to gain the knowledge in Network Administration
- To understand about Firewalls, Cryptography, VPNs, IPS
- To analyze security threats and protect organization's systems and database
- Hands-On Training on UTM Firewalls.

Course Coverage

Network Administration

- Computer Networks & Topologies
- OSI Layers & Transmission Media
- Communication Protocols
- IP Addressing & Subnetting (VLSM & CIDR)
- Network Devices & Establishing the Network
- TCP / IP Services & Server Roles
- Router Fundamentals & Router Configuration
- IP Routing, Static & Default Routing
- Dynamic Routing : RIP, IGRP, OSPF
- Managing IP Traffic Using Access Control List
- Types of WAN Connections
- WAN Serial Connections, Switching
- Configuring Virtual LAN's (VLAN)
- Virtual Network Connection (VPN)
- Configuring DHCP
- Network Monitoring Tools & Troubleshooting

Network Security

- Network Attack Techniques
- Common Vulnerabilities and Exposures
- Trojans, Viruses, Worms, Logic Bombs
- Eavesdropping, Phishing, Smurfing, Rootkit, DDoS
- Intrusion Detection System (IDS) and Intrusion Prevention System (IPS)

Firewalls Overview

- Types of Firewalls
- Firewall Configuration Strategies
- Handling Threats and Security Tasks
- Multi Firewall DMZ
- Firewall Log Analysis Protocol Intrusion Detection System
- Hands-on Practical on UTM
- Network Behavior Analysis (NBA)

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
- IT professionals who are interested in Network Security

.Benefits to the Participant
- 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
Venue: At ESCI Campus Hyderabad
Dates: 06 – 10 Nov 23
Session timings will be from 10:00 – 17:00 hrs with 01 Hour Lunch break & 15 Minutes Tea 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
- ₹ **25,000/- (Residential Fee)** per participant. Fee includes Single AC accommodation, course material, course kit, Breakfast. Lunch, Dinner, Tea / Coffee and Snacks during the actual days of the training program.

Course Fee for Online Training
- ₹ **15,000/- per participant.** Fee includes 30 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) (ZZC) 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.