



Engineering Staff College of India

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



INFORMATION TECHNOLOGY DIVISION

PROFESSIONAL DEVELOPMENT PROGRAMME

Cyber Defence & Digital Forensic Tools (To become a Security Specialist)



05 – 18 March 2018



(An ISO 9001:2008 Certified, AICTE & CEA Recognized Institution)

Centre for Promotion of Professional Excellence

Introduction

In today's world, Information Technology is playing a pivotal role in business, most of the organizations and enterprises depend on different kinds of Information Technology solutions, say e-commerce, e-governance, e-learning, e-banking etc.. Battles between corporations, governments, and countries are no longer fought using physical force. Cyber war has begun and the consequences can be seen in everyday life. With the onset of sophisticated cyber-attacks, the need for advanced cyber security and investigation training became mandatory in the present day. If you or your organization requires the knowledge or skills to secure IT Infrastructure, Prevent Cyber attacks, in case of intrusion, identify, track and prosecute the cyber criminals, then this is the course for you.

This course helps participants to excel in digital evidence acquisition, handling and analysis in a forensically sound manner. Acceptable in a court of law, these skills will lead to successful prosecutions in various types of security incidents such as data breaches, corporate espionage, insider threats and other intricate cases involving computer systems.

Objectives

- Five-day, instructor-led course will provide you knowledge in Computer Security & Digital Forensic.
- This Course provides in-depth knowledge of new techniques and tools used in Cyber defence and forensic investigation to meet the toughest challenges in fighting cybercrime.

Course Coverage

- Cyber Security Overview
- Types of Attacks
- Goals for Security and its properties
- Security Threats and Vulnerabilities
- Hacking Techniques,
- Five phases of Hacking,
- Information Gathering techniques
- System Security
- Windows Security
- Threats, Exploits and Vulnerabilities
- Overview of Computer Forensics
- Computer Forensics Investigation Process
- Classification, Searching and Seizing Computers
- Digital Evidence First Responder Procedures
- Understanding Hard Disks and File Systems
- Windows Forensics
- Data Acquisition and Duplication
- Recovering Deleted Files
- Forensics Investigation Using Access Data FTK & EnCase
- Web & Mail Attacks
- Investigating Web Attacks
- Tracking Emails and Investigating Email Crimes
- Network Security
- Log Capturing and Event Correlation
- Tools for fingerprinting
- Network Monitoring and Management
- Port scanning
- Network Traffic
- Wireless Security
- Investigating wireless attacks
- Mobile Security
- Mobile security investigations
- Investigative Reports
- Becoming an Expert Witness
- IT ACT/ ITAA 2008 INDIAN PENAL CODE

Methodology

Methodology of the programme includes classroom sessions with Hands - on Practical, Step-by-step procedures, best practices and guidelines to carry out forensic investigation, with tools, audio visual aid, benchmarked 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.

Target Participants

- System Administrators / Network Administrators/ IT Managers
- Police Offices (ASP, DSP, ASP, SP or Above Rank Officers) / Defence Scientists / Officers of Forensic Labs.
- Programmers / Professors / Faculty & Technical Staff of Engineering Collages
- The program is designed for all IT professionals involved with information system security, computer forensics, and incident response

Benefits to the participants

- Enables Participants to practice various investigation techniques in a real time and a simulated environment
- The course tools and programs are preloaded on the **Cyber Security Labs** machine, thereby saving productive time and effort.

Programme Venue, Dates & Timings

Venue: Engineering Staff College of India (ESCI) Campus, Old Bombay Road, Gachi Bowli, Hyderabad. 500032. TS, India.

Dates

05 – 08 March, 2018

Timings

On the first day Registration will commence at 09:00 hrs. On all other days the programme timings will be from 09:45 – 17:15 hrs with breaks in between for tea and lunch.

Course Director



Mr. Syed Azgar , MBA(IT), RHCE, MCSA
Faculty & Manager-IT,
Information Technology Division,
Engineering Staff College of India, Hyderabad.

Course Fee

₹ 20,000/- (Residential Fee) per participant. Fee includes course material, course kit, twin-sharing / single AC accommodation as per availability, Breakfast, Lunch, Dinner, Tea / Coffee and Snacks during the actual days of training programme.

DISCOUNTS

- ❖ **Non – Residential Fee** - 10% discount on course fee is allowed for non- residential participants.
- ❖ **Group Discount** - Additional 10% discount for three or more participants if sponsored by the same organization

(All discounts are applicable only if fee is received at ESCI before commencement of the programme)

GST @18% is to be paid extra and above the training fee as training is also brought under the purview of Service Tax in Finance Bill 2010. **PAN Card No.** AAATT3439Q. **GST No:** 36AAATT3439Q1ZV, **HS No.:** 999293 (under commercial training or coaching services – clause 65(105) (ZZC) of Finance act – 1994).

Programme fee is to be paid in in favour of “**THE INSTITUTION OF ENGINEERS (INDIA) – ENGINEERING STAFF COLLEGE OF INDIA**” in the form of demand draft payable at Hyderabad. Alternatively the payment may be made 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.**

Register Online: <http://www.escihyd.org/trainings/information-technology/>

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

The Head

Information Technology Division
Engineering Staff College of India
Gachi Bowli, Hyderabad – 500 032
Phone: 66304100 (EPABX) / 040 – 66304123/24/25 (Direct), Fax: 040 - 23000336
Email: it@escihyd.org, Portal: www.escihyd.org

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

- ESCI encourages participants to present case studies from their respective organizations.
- For the convenience of outstation participants, ESCI will facilitate pick-up and drop from Airport / Railway Stations / Bus Stations, if travel plans are received at least 3 days in advance along with mobile number by fax or email. The charges shall be paid by the participant directly to the Cab.
- ESCI provides complimentary accommodation and boarding to the participants one day before commencement (Check-in 1200 h) and one day after conclusion (Check-out 1200 h) of the programme duration. Overstay charges will be applicable as per ESCI rules (subject to availability of accommodation)
- Well developed Information Centre and Internet facilities are available to the participant.