

4th Edition of
SHORT TERM
CERTIFICATE COURSE ON
CYBER SECURITY
2025
HYBRID

The Bengal Chamber of Commerce and Industry, in association with WEBEL-Fujisoft-Vara Centre of Excellence Industry 4.0, is presenting 4th Edition of "Short Term Certificate Course on Cyber Security".

THE FOCUSED AREAS OF THE COURSE:

- Topic 1: Cloud Security
- Topic 2: Darkweb monitoring
- Topic 3: Attack surface monitoring
- Topic 4: API Security

DATES:



15th February 2025, Saturday-Physical, Day 1 at the Webel Fujisoft Vara CoE, 11:00 am to 5:00 pm (6Hrs)



21st February 2025, Friday- Virtual, Day 2, 6:00 pm-8:00 pm (2Hrs)



28th February 2025, Friday- Virtual, Day 3, 6:00 pm-8:00 pm (2Hrs)



8th March 2025, Saturday-Physical, Day 4 at the Webel Fujisoft Vara CoE, 11:00 am to 5:00 pm (6Hrs)



15th March 2025, Saturday- Virtual, Day 5, 6:00 pm-8:00 pm (2Hrs)



22nd March 2025, Saturday- Physical, Day 6 at the Webel Fujisoft Vara CoE, 11:00 am to 5:00 pm (6Hrs)

TOTAL DURATION : 24 Hours

PHYSICAL CLASS VENUE:

WEBEL-Fujisoft Vara CoE:
Plot No 2222, Action Area- IIIA, Jothbhim,
Baligari, New Town, Kolkata 700156

USP of the Course:

The course incorporates used case-based learning with an extensive collection of live case studies for in-depth discussions. Participants will gain practical, hands-on experience during the in-person training sessions, leveraging the state-of-the-art facilities at the Webel Fujisoft Vara Centre of Excellence.

Course Outline:

Day 1- 15th Feb 2025

Saturday

In Person at Webel Fujisoft
Vara CoE (Lunch included)

- ✔ Introduction to Cloud Security Basics of cloud computing and cloud security
- ✔ Shared responsibility model in the cloud
- ✔ Understanding the Dark Web What is the dark web?
- ✔ How cybercriminals operate on the dark web
- ✔ Case Study: Gmail and other mailing tools for users to monitor Darkweb
- ✔ Understanding Attack Surface Definition and components of an attack surface
- ✔ Key challenges in attack surface management
- ✔ Introduction to API Security What are APIs?
- ✔ Importance of API security for businesses
- ✔ Common threats to APIs

Day 2- 21st Feb 2025

Friday, Virtual

- ✔ Key Threats in Cloud Environments
- ✔ Data breaches and misconfigurations
- ✔ Insider threats and third-party risks

Day 3- 28th Feb 2025

Friday, Virtual

- ✔ Introduction to AI, AI/ML techniques /use cases/model interpretability tools(SHAP & LIME)/Gossip zero Shot learning architecture for privacy driven synchronization
- ✔ Gossip protocols key characteristics/federated learning. Hands on session on how to utilize AI tools for log monitoring

Day 4- 8th Mar 2025

Saturday

In Person at Webel Fujisoft
Vara CoE (Lunch included)

- ✔ Implementing Cloud Security Best Practices
- ✔ Identity and access management (IAM)
- ✔ Data protection strategies (encryption, backups)
- ✔ Continuous monitoring and compliance
- ✔ Threats from the Dark Web
- ✔ Data breaches and stolen credentials
- ✔ Black-market operations and corporate espionage
- ✔ Securing Dev Ops
- ✔ Identifying and Assessing Attack Surface Risks
- ✔ Tools and techniques for mapping attack surfaces
- ✔ Identifying vulnerabilities
- ✔ Understanding API Vulnerabilities
- ✔ OWASP API Security Top 10
- ✔ Case studies: Real-world API breaches
- ✔ Case study: Crowdstrike Fraud

Day 5- 15th Mar 2025

Saturday, Virtual

- ✔ Case Study: Illegal mining of Crypto
- ✔ Detection and tracking of fake apps in playstore & Appstore & removal

Day 6- 22nd Mar 2025

Saturday

In Person at Webel Fujisoft
Vara CoE (Lunch included)

- ✔ Reducing Attack Surface
- ✔ Strategies for minimizing exposure
- ✔ Role of continuous monitoring and automation
- ✔ Case studies: Star Health Insurance issue
- ✔ Recent Ransomware attacks and Responses (CERT-IN acts)
- ✔ Implementation of passkeys & MFA
- ✔ Best Practices for API Security
- ✔ Authentication and authorization (OAuth, JWT, etc.)
- ✔ API monitoring and logging

- ✓ Secure API design and implementation
- ✓ Detection and prevention of deepfake videos and voice (ROOP)
- ✓ Digital Arrest & prevention
- ✓ Case Study: Digital insurance & cyber insurance
- ✓ Award Ceremony

Course Fee : Rs. 15,000 + 18% GST

**per participant*

ORGANIZATIONS/ GROUPS CAN AVAIL DISCOUNTS ON BLOCK/ GROUP ENROLMENTS.

2-3 CANDIDATES : 10% DISCOUNT ON THE COURSE FEE OF RS.15000

4-5 CANDIDATES : 15% DISCOUNT ON THE COURSE FEE OF RS.15000

6 CANDIDATES AND ABOVE: 20% DISCOUNT ON THE COURSE FEE OF RS.15000

WHO WILL BENEFIT:

- ✓ IT & Cyber Security Professionals
- ✓ Financial Professionals
- ✓ Data Protection Managers; Data Protection Officers & Data Protection Consultant
- ✓ Legal Compliance Officers
- ✓ Security Manager
- ✓ Information Managers
- ✓ Logistics and Supply Chain Professionals
- ✓ Entrepreneurs working in IT, IT Infrastructure, FMCG, Banking, Finance, Ecommerce and Healthcare

TOPICS COVERED:

TOPIC 1: CLOUD SECURITY

TOPIC 2: DARKWEB MONITORING

TOPIC 3: ATTACK SURFACE MONITORING

TOPIC 4: API SECURITY

Learning Outcomes: On completion of the Course, the participants will be able to:

- ✔ Identify, evaluate, and mitigate risks that arise when working with third parties or any external vendors in the supply chain and logistics related works for any business or enterprises.
- ✔ Identify and mitigate the threats looming around the usage of AI for any business.
- ✔ Understand the essentials of Attack Surface Monitoring and how to work with it in future across all the industries.

Faculty:

Mr. Abhirup Guha, Sr. Security Consultant, has around 15+ years of experience in Information security Threat Assessment. He is an ISO 27001 Certified Lead Auditor and Lead Implementer of BS 10012:2017 + AI:2018 & GDPR. He is also a Certified Ethical Hacker, Certified Forensic Investigator, and CERT-IN empaneled Cyber Security Auditor. He also specializes in anti-ransomware forensic techniques. He has been associated with FSN IT Solutions USA since January 2022, conducting cyber security audits and forensic services in the USA and Bangladesh

Live case studies will be presented by industry expert, Mr. N K Ghosal, Member, IT Committee, The Bengal Chamber of Commerce and Industry Mentor, WEBEL-BCC&I Tech Incubation Centre and Director, NKG & Associates.

Certification:

To be jointly provided by The Bengal Chamber of Commerce and Industry, one of the oldest Chambers of Commerce and WEBEL- Fujisoft- Vara Centre of Excellence Industry 4.0, an initiative of Information Technology and Electronics Department, Government of West Bengal, on successful completion and assessment.

How to Enroll for the Course:

- ✔ Please register through
- ✔ To enroll, the applicants can initiate Bank-to-bank transfer directly to the Bank Account by NEFT/RTGS and/or QR.

Beneficiary Name: The Bengal Chamber of Commerce and Industry

Bank Name: Canara Bank

Bank Account Number: 95001010000017 (Current)

IFSC Code: CNRB0019500

BCC&I Address: Royal Exchange, 6 Netaji Subhas Road, Kolkata 700001, West Bengal Kolkata

Scan for payment



Advisors :



Mr. Amitava Sengupta

Co-Chairperson, IT Committee, The Bengal Chamber of Commerce and Industry (BCC&I) and Chief Digital Officer, RPSG Group

Mr. Amitava Sengupta is the Co-Chairperson of the IT Committee of The Bengal Chamber of Commerce and Industry (BCC&I) and has played a significant role in curation of the Cyber Security Course. He is also a digital transformation leader who is passionate about delivering business outcomes by leveraging core and emerging digital technologies across industries. As the President and Group Chief Digital Officer at RP Sanjiv Goenka Group, he plans, designs, and enables digital transformation strategy and initiatives across the group companies, focusing on the four primary pillars of digital transformation - cybersecurity, cloud, data, and technology modernization. Prior to joining RPSG Group, he held various leadership roles at HCL Technologies and at TATA Consultancy Services, leading a team of experienced professionals who provided advisory and solutions on digital strategy, enterprise and consumer digital transformation, process automation, and business-IT alignment for global organizations. Mr. Sengupta also have extensive domain knowledge and expertise in core and consumer industries, offshore outsourcing, and consulting. Some of his interest areas include enterprise architecture, new age program management processes, and data engineering and science.



Mr. N K Ghosal

Member, IT Committee, The Bengal Chamber of Commerce and Industry (BCC&I) and Mentor, WEBEL-BCC&I Tech Incubation Centre and Director, NKG & Associates

Mr. N.K.Ghosal is currently working as an independent Consultant and conducting Information Systems Audits and Consulting for various Financial Institutions. Prior to this he was based in Bangalore conducting IT Audits for a Insurance Company as per IRDAI guidelines.

He is currently assisting various organizations in obtaining their SOC 2 attestations and ISO certifications.

Apart from this N K Ghosal has in his approximate 20 years of experience worked for various IT companies like IBM, HCL , Computer Associates - TCG in India and for HCL Malaysia and SVOA plc in Thailand.

He is CISA & CEH certified & recently qualified as ISO27001:2013 LA . He is on the Board of ISACA Kolkata Chapter, Member of the IT Committee, The Bengal Chamber of Commerce & Industry (BCC&I), Life member of Computer Society of India (CSI) and member of The Agri-Horticultural Society of India.



About The Bengal Chamber of Commerce of Commerce and Industry

The Bengal Chamber of Commerce and Industry, one of the oldest institutions of its kind tracing its origins to 1833, has stayed relevant close to 200 years by adapting to the changes and delivering to the need of the industry. The Chamber's members include the brick and mortar industries as well as the new age technology businesses. The Chamber recently commenced its operations in New Delhi from its Delhi office from 2024.

The Chamber is deeply connected with Tech Industry. The Chamber has a dedicated IT Committee under the aegis of which vibrant initiatives are taken up, which over the years, bring together technology providers, users, academia, startups, incubators, policy makers and the other stakeholders of technology to share applications, disseminate knowledge on cutting edge technologies, network and exchange dialogues for collaborations. Our annual Business IT Conclave under the aegis of BCC&I IT Committee focuses to connect with national and international Technology leaders showcasing the potential of Bengal in emerging technologies with availability of intellectual resources and promising Startups.

As a responsible Chamber of Commerce having significant presence in the IT fraternity, we tried to analyze the skill gaps prevailing in the industry during pandemic , where digital was the new normal and had come up with short-term courses on Emerging Technologies and key aspects of Technology to help support the upskilling and knowledge management of the IT ecosystem.

The Chamber successfully launched the 1st edition of Short Term Certificate Course on Cyber Security in 2022, focusing on Vulnerability Management and Social Engineering, organized the 2nd Edition in 2023, focusing on Ransomware and Data Privacy and the 3rd Edition in 2024, focusing on Supply Chain Security risk & Impact of AI for Enterprise and Digital Personal Data Protection Act in India (DPDP). The previous three Courses had overwhelming participation including CIOs, Directors, IT Professionals and others from corporates. Following the feedback from the participants of the previous editions, the IT Committee of The Bengal Chamber has embarked on the initiative of presenting the 4th Edition of this Short-Term Cyber Security Course.



About WEBEL- Fujisoft- Vara Centre of Excellence Industry 4.0:

WEBEL- Fujisoft- Vara Centre of Excellence Industry 4.0 is an initiative of the Government of West Bengal. The Centre of Excellence in Industry 4.0 has been developed by Fujisoft Inc, Japan and Vara Technology, India. The Centre of Excellence brings together students, professionals, start-ups, corporates, technology providers and Government to radically transform skill development as well foster innovation. This is India's first technology platform which brings together the technologies that define the fourth Industrial Revolution.

Technologies in focus:

Four key technologies form the nucleus of the CoE activities:

- 3D Manufacturing (Additive Manufacturing)
- Data Science (Machine & Deep Learning)
- Embedded Systems/ IoT
- Cyber-Security

The CoE has state-of-the infrastructure, technologies, hardware, software and systems integration. Its IT infrastructure has high-speed processing capabilities to run complex analytics in its Machine & Deep Learning Labs. The 3D Manufacturing center has been equipped with the latest machinery from Stratasys, the world's No 1 manufacturer of 3D machines. The IoT lab is well equipped to offer students the opportunity to create a range of devices with embedded systems. The Cybersecurity labs offer the opportunity to carry out simulations using a world-class simulator.



Key areas of activities of the CoE include:

- Training and mentoring students on these four technologies to enhance their employability or become technopreneurs of start-ups.
- Research on areas of interest for both industry and academia.
- Consulting services for MSMEs to improve their efficiency, productivity, quality & market

The CoE offers the following training courses for graduates and working professionals in Emerging Technologies:

- Post Graduate Certificate in Data Science
- Post Graduate Certificate in Cyber Security
- Post Graduate Certificate in Embedded Systems
- Post Graduate Certificate in Additive Manufacturing

The CoE also offers courses for students who are currently pursuing Bachelor's degrees:

- Advanced Certificate in Data Analytics
- Advanced Certificate in Data Engineering
- Advanced Certificate in Cyber Security
- Advanced Certificate in IoT
- Advanced Certificate in 3D Printing

The CoE offers customized training courses for Corporate Houses for their employees on various areas of emerging technologies. Additionally, the CoE has a Hire-Train and Deploy model where Corporate can hire candidates and get them trained through the CoE on customized courses designed as per the specific skill-sets that are required by the Corporate.

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