**2ND EDITION**

**WEBEL**
opportunities infinite
**WEBEL-FUJISOFT-VARA**
CENTRE OF EXCELLENCE
INDUSTRY 4.0

**BCC&i**
THE BENGAL CHAMBER

# SHORT-TERM CERTIFICATE COURSE ON
# CYBER SECURITY 2023

The Bengal Chamber of Commerce and Industry, in association with WEBEL-Fujisoft-Vara Centre of Excellence Industry 4.0, is presenting 2nd Edition of "Short Term Certificate Course on Cyber Security".

**Date of Commencement:**
4th March 2023

## Course Content

**Ransomware**
Day 1: 4th March 2023
11:00 a.m. to 4:00 p.m. (Physical)

Day 4: 25th March 2023
11:00 a.m. to 4:00 p.m. (Physical)

**Data Privacy**
Day 2: 10th March 2023
6:30 p.m.- 8:30 p.m. (Virtual)

Day 3: 17th March 2023
6:30 p.m.- 8:30 p.m. (Virtual)

What's Our USP:

This workshop will enable the participants to be acquainted with latest developments in ransomware and it's threats in the present condition also what kind of measure should be taken to counter the threats. Participants shall also learn the aspects of data privacy and it's application and importance in the aspects of personal identifiable information (PII) act.

## Who can benefit?

All Cyber security, IT and Financial Services professionals responsible for defending against ransomware attacks, maintaining data privacy are encouraged to attend. Anyone having responsibility with any form of Information Technology-based work should be benefited by the workshop.

## Course Fee:
# ₹ 10,000 + 18% GST

**Organizations/ Groups can avail discounts on block/ group enrolments.**

2-3 candidates : 5% on the discounted fee of Rs. 10000

4-5 candidates : 10% on the discounted fee of Rs. 10000

6 candidates and above: 15% on the discounted fee of Rs. 10000

## Topics Covered

### RANSOMWARE

- Introduction to Ransomware
- Fundamentals of Incident Response
- Ransomware evolution and history
- Understanding Victims & Network
- Ransomware-as-a-Service
- **Short Quiz (Q&A)**
- Understanding Access Brokers
- Understanding Ransomware operators
- Artifact Collection
- Attack Analysis
- Ransomware Attack phases
- Active Directory (AD) Attacks
- **Short Quiz (Q&A)**

### DATA PRIVACY

- Understanding the Data & Information
- Privacy in the Digital Age
- Data Collection, Data Use & Data Reuse
- Risks in Data Privacy
- Data Privacy Law Frameworks
- Personal Data Protection Act
- GDPR and PII Management
- Understanding of Malware
- Malware-as-a-Service
- Execution and Defense Evasion
- Persistence
- Privilege Escalation and Credential Access
- Lateral Movement
- **Short Quiz (Q&A)**
- Custom attack scenario - Case Study & Scenario
- BlueLocker & Balrog - Case Study

# 8
**HOURS**
Course Duration

Day 1: 4th March 2023 - 11:00am to 4:00pm at CoE* (Physical)
Day 4: 25th March 2023 - 11:00am to 4:00pm at CoE* (Physical)

*Plot No - 2222 Action Area - IIIA, Jothbhim, Baligari, New Town Kolkata, 700156, West Bengal, India

# 4
**HOURS**
Course Duration

Day 2 : 10th March 2023 - 6:30pm – 8:30pm (Virtual)
Day 3: 17th March 2023- 6:30pm – 8:30pm (Virtual)

# Learning Outcomes

## Ransomware

- Identify Ransomware targets.
- Classify evolving Ransomware trends.
- Employ actions to prevent Ransomware.

## Data Privacy

- Understand the key concepts of privacy across international jurisdictions.
- Learn how to identify personal data.
- Understand the rights that individuals have regarding their personal data.
- Understand the organization's responsibilities when collecting and processing personal data.
- Learn about the responsibilities organizations have when sharing data internally, externally, and across borders.

# About the Faculty

**Mr. Sourav Bhaumik** is a Consultant at Big 4.He is an ISO 27001 Lead Auditor and also holds other certifications like ISO 22301 Lead Auditor, ECSA, CHFI CEH, Malware Analysis for Incident Responder, etc. He was a Sustainable Change Agent (SCA) for Capgemini Lean Foundation. He has also taken training of Six Sigma Yellow Belt.

Mr. Bhaumik conducted multiple web and mobile application security testing of organisations like GST, VGM, World Bank, CIFF, CTS, IT Origin, NIC, etc. He also conducted multiple network VAPT for multiple MNCs and Government organisations for CIFF, GST DC, Krosaki, Kernelsphere, STQC; VAPT on smart IoT device of Jamshedpur Smart City.

Mr Bhaumik directed OSINT & dark web analysis for Government organisations like, GST, STF, CID, Indian Army, etc. He also has led ISMS training session for multiple organisations, like GST, TRL Krosaki, VGM, CDAC, IRQS, etc and multiple training sessions on cyber security for CID, STF, STQC, GST, WB & Kolkata Police, Webel, CSCoE etc.

# Advisor

**Mr. N.K.Ghosal is the Member of IT Committee, The Bengal Chamber of Commerce and Industry and Mentor, WEBEL-BCC&I Tech Incubation Centre. He is also the Director, NKG & Associates .**

He is currently working as an independent Consultant and conducting Information Systems Audits and Consulting for various Financial Institutions.

He is currently putting together solutions based on ZTA (Zero Trust Architecture) which is important in this current situation of WFH(work from home ) & WFA (work from anywhere) .

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 on the Board of ISACA Kolkata Chapter

## 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 https://bit.ly/CyberSecurityRegistration2023

► To enroll, the applicants can initiate Bank-to-bank transfer directly to the Bank Account by NEFT/RTGS.

**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

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 Bengal Chamber is deeply connected with the tech industry with vibrant initiatives, 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.

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. We had 20 participants including CIO, Directors, IT Professionals and others from corporates like Bengal Gas Company Limited; CESC Limited; Exide Industries Limited; CDAC Kolkata; Indorama India Private Limited; PricewaterhouseCoopers Service Delivery Center (Kolkata) Private Limited; TM International Logistics Limited; Wizertech Informatics Pvt Ltd; Zensar Technologies and others. Following the feedback from the participants of the previous edition, the IT Committee of The Bengal Chamber has embarked on the initiative of presenting 2nd Edition of the Cyber Security Course.

## *About Us*
## THE BENGAL CHAMBER OF COMMERCE AND INDUSTRY

*Mentor*

**Mr. Arnab Basu**
**Senior Vice President, The Bengal Chamber of Commerce and Industry and Chairperson, IT Committee, The Bengal Chamber of Commerce and Industry**

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

**We also offer courses for students who are currently doing Bachelors 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.

*About Us*

## WEBEL- FUJISOFT- VARA CENTRE OF EXCELLENCE INDUSTRY 4.0

# Contact

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