

Cyber Security Training cum Certification Program Associate Level 1.0

CII-Tata Communications Centre for Digital Transformation (CDT), Gurugram

Demand for Cyber Security Professionals is on the rise

Cyber security threats to organizations – government and private, as well as to individuals, are growing exponentially. Highly publicized data breaches have caused huge financial as well as reputational losses to global corporations; cyber-attacks also have the potential to impact national security and well-being of citizens.

Cyber security is disruptive and game changing. Threats proliferating faster than our ability to respond to them means that there is a **great demand for cyber security professionals**. Forbes estimates that **by 2020, there will be as many as 3.5 million unfilled cyber security positions in the industry**. Cyber security skill development is a national priority.

Cyber Security Training cum Certification Programme by CII

The **CII – Tata Communications Centre for Digital Transformation (CDT)** in collaboration with MitKat Advisory conducts a **Cyber Security Training cum Certification Program Associate Level 1.0** for professionals / career aspirants. The first such course was conducted in March 2019.

The program would be useful in **strengthening skills of cyber security professionals working with government organizations** (including but not limited to Army, Navy, Air Force and DRDO, PSUs, CPOs, PMFs, Police/ LE, Intelligence and/or Emergency Services), **Corporations (including MNCs and global organizations, SMEs and startups) and NGOs**. It would also be open to graduates (preferably with engineering background) desirous of pursuing career in cyber security. **It would help individuals/ organizations better understand and manage cyber security risks with better trained professionals. For individual candidates, this program would enhance their employability in cyber security domain.**

The second Cyber Security Cum Certification Program Associate Level 1.0 will be held at CII, Gurugram from **Thursday, 13th June 2019 to Saturday, 15th June 2019**.

The curriculum has a **technical orientation** and would include **learning with acknowledged industry leaders, subject matter experts (SMEs) and trainers, case studies, introduction to contemporary technologies, trends, products and solutions, industry visits, entrance test and certification examination.**

The training program has been priced at Rs. 25,000/- plus taxes per individual trainee. Pre-registration and pre-payment is mandatory. For registration, organizations/individuals can send a mail with all relevant details of the participating candidate(s) to Rahul Aggarwal at rahul.aggarwal@cii.in and allow two working days for confirmation of enrolment.

Syllabus

Associate Level 1.0 Program would focus on “Strengthening the Fundamentals of Cyber Security Technology:

- **Secured and Converged IT infrastructure (including Cloud)**
- **Cyber Security Architecture**
- **Network Scanning Technologies and Counter-measures**
- **Security Audit**
- **Industry Visit**

It will also include a basic introduction to **ISO 27001** and other industry standards and frameworks, as well as industry visits and interaction with experts.

Tentative Training Program is covered at **Appendix ‘A’**.

1| Cyber Security Training Associate Level 1.0 **Principal Partner | Associate Partner | Training Partner**

Future Roadmap for Cyber Security Training cum Certification Program (not included in the current program) will include Professional Level 2.0 and Expert Level 3.0 as under:

- **Professional Level 2.0** – Develop competencies in **Cyber Threat Assessment** and **Mitigation**.
- **Expert Level 3.0** – This includes development of expertise in **Designing Complex and Secure IT Infrastructure**, and **Delivery of Pro-active Cyber Security posture**.

Why this course and who should attend

The program has a **technical and practical orientation**, focuses on **strengthening the fundamentals of Cyber Security**, is **brand/platform agnostic**, provides **real life case studies**, opportunities for **interaction with leading experts** and comes with a **certification** with industry acceptance.

This training cum certification program should be attended by individuals who are currently serving at various levels of organizations in roles such as Cyber Security Administrators/Engineers:

- Government organizations (including but not limited to Army, Navy, Air Force, CPO, PMFs, Police, Intelligence, agencies, Emergency forces and Disaster Management)
- Research and hi-tech organizations (like DRDO, ISRO etc)
- Public Sector Undertakings (PSUs)
- Public-Private Partnerships (PPPs)
- Project management Consultants (PMCs)
- Corporations (including MNCs and global organizations)
- SMEs and start ups
- Individuals (preferably engineering graduates) desirous of pursuing career in cyber security

This introductory course would also be useful for directors or their team members in government organizations, business managers, board members or those with responsibility for cyber security oversight and/or budgeting, as well as professionals in technology companies with pre-sales and delivery roles.

FAQs are covered at **Appendix 'B'**.

Appendix A: Training Program (9 :00 AM to 5:15 PM)

Day 1: Thursday, 23rd May 2019

Time	Subject	Venue
9:00 - 9:30 AM	Registration and Welcome Tea	CII, Gurugram
9:30 - 9: 35 AM	Welcome Address	
9:35 – 9:45 AM	Opening Address	
9:45 - 10:15 AM	Introduction to Security and Risk Management	
10:15 -10:40 AM	Refreshments	
10:40 - 12:00 PM	Information Security Standards (ISO 27001, PCI DSS, COBIT), Policies and Frameworks	
12:00 – 12:45 PM	Introduction to Cyber Security Technologies	
12:45- 1:30 PM	Lunch	
1:30 – 2:30 PM	Introduction to Cyber Threats	
2:30 – 2:45 PM	Tea	
2:45 - 3:30 PM	Exploring Attack Vectors	
3:30 – 4:00 PM	Case Studies on Building a highly secure internet edge	

Day 2: Friday, 24th May 2019

Timelines	Topics	Venue
10:00 - 10:30 AM	Evolving Role of CISOs	CII, Gurugram
10:30 – 10:45 AM	Refreshment	
10:45 – 11:45 PM	Introduction to Cloud Infrastructure and Cloud Security	
11:45 - 12:45 PM	Network Security	
12:45 - 1:30 PM	Lunch	
1:30 - 2:30PM	Application and Network Security, and Encryption	
2:30 PM - Onwards	Visit to SOC	Gurugram

Day 3: Saturday, 25th May 2019

Timelines	Topics	Venue
10:00 – 10:30 AM	Cyber Laws, Cyber Crimes & Investigations	CII, Gurugram
10:30 – 10:45 AM	Refreshment	
10:45 – 11:45 PM	Security Audits – Global Risk & Compliance	
11:45 – 12:45 PM	Revision	
12:45 – 1:30 PM	Lunch	
1:30 – 2:30 PM	Assessment cum Certification Exam	
2:30 - 3:00 PM	Refreshments	
3:00 – 3:45 PM	Career Counselling	
3:45 – 4:00 PM	Closing Address and Distribution of the Certificates	

Appendix B: Frequently Asked Questions (FAQs)

FAQs and answers are indicated below.

➤ **How long is this program?**

This Training cum Certification Program is for three working days. The first session is from **Thursday, 23rd May 2019 to Saturday, 25th May 2019.**

➤ **How much does this program cost?**

Rs. 25,000 plus taxes, payable in advance.

➤ **What is the course capacity?**

Maximum 30 per batch.

➤ **What are the professional backgrounds of the trainers conducting this Training cum Certification Program?**

Reputed organizations (CII, MitKat, TATA Communications, others) and professionals are associated with this programme. They have university degrees from prestigious organizations to include M Tech and PhD (from IIT, BITS etc), management degrees from ISB, IIMs, King's College London, Joint Services Command & Staff College UK, Defence Services Staff College, India. They are/have been CEOs, CIOs and CISOs of leading Tech Companies and Security startups, leading security consultants and designers, Members/Chairs of CII committees and National Task Forces on IT/ITeS and Cyber Security. They hold globally recognized certifications CISA, CISSP, CBCP, BCCP, ISO 27001 LA, ISO 22301 LA, Cisco Certified, Microsoft certified etc. The leadership team includes distinguished and decorated senior military and governments officials with Indian and overseas training; those selected by US State Department for Global Security Leaders Program, and those with high-profile global risk consultancy backgrounds. Some are speakers at leading global fora and are invited by governments, industry bodies and and corporations for expert advice.

➤ **What is the criteria to qualify for the assessment exam for this Training cum Certification Program?**

- **100% attendance** (waiver can only be granted in exceptional circumstances by an empowered authority).
- **75% marks for participants to be awarded "CDT Certified Associate Level 1.0".**
- **There would be negative marking in the assessment examination.**
- Good discipline, class participation and adherence to the Code of Conduct.

➤ **Does this Training cum Certification Program offer any placement assistance? If yes, please explain.**

One specific guidance session on the last day would be given to individual candidates. **However, CDT and Partner organizations take no responsibility for placement.**

➤ **What if any participant attends the complete session but fails to clear the exam or does not write the exam?**

The participants shall be awarded a **"Certificate of participation"**.

➤ **Assuming I have successfully attained "CDT certified Associate Level 1.0". What next?**

Go back to your organization and pick up more hands-on experience. Over the next two years, attempt CII's advanced certifications (exceptionally talented and skilled professionals could do so earlier):

- **Professional Level 2.0** – Develop competencies in Cyber Threat Assessment and Mitigation.
- **Expert Level 3.0** – This includes development of expertise in Designing Complex and Secure IT Infrastructure, and Delivery of Pro-active Cyber Security posture.