

**Diploma in Cyber
Security (IT Security)**



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Duration:- 192 Hrs/ 8 Months



About IIHT

IIHT is a leading IT talent transformation company and a technology evangelist in the retail and enterprise space. Having dedicated over two decades in creating learning paths for freshers and professionals that are closely aligned with the demands of the IT industry, IIHT has truly been a pioneer in Education, Service and training. At IIHT, we recognize the requirements of the IT industry and work towards tackling challenges that prevent the growth of both the enterprise and its workforce. All of IIHT's courses are well designed, adopting a convenient and thorough stack approach for IT job aspirants who need training to be job ready and for IT professionals waiting to progress in their careers. By adopting blended learning, a live and interactive virtual classrooms, IIHT's reach has now gone even beyond borders.

About Security

Information is a strategic resource. IT Security give us the state of being free from danger or threat and is designed with an objective of identifying, classifying and structuring information. The design also includes several security models which consists of:

- Confidentiality
- Integrity
- Availability

IT Security is the defense of digital information and IT assets against internal and external, malicious and accidental threats. The defense includes detection, prevention and response to threats through the use of security policies, software tools and IT services.

IT Security is necessary for the following reasons:

- To take care of the Confidentiality, Integrity and availability of an organization.
- To Identify, Classify and Structure the information.
- To avoid direct threats of e-commerce, mobile based transactions, online fraud, credit card fraud, SIM card swiping and social engineering.
- To prevent Cyber attacks.
- To block unknown access to the information.
- To prevent information leakage and loss.
- To deliver information to the right person.

Why IIHT Certified Professional Diploma in IT Security ?

IIHT Program is purely designed to fit into job role of IT Security industry. The roles are categorized as L1, L2, L3 & L4. This particular course is designed to develop professionals for both L1 & L2 roles. However the industry offers only 'L1' job to fresher's.

The role of 'L1' involves majorly:

1. Security Fundamentals
2. Basic Security Administration
3. Cyber Security Incident Log
4. Use of Scanners and carry out vulnerability tests
5. Updates & Security Patches



Rationale for the IIHT Certified Professional Diploma in IT Security

- IT security is the defence of digital information on IT assets against internal and external, malicious and accidental threats.
- The program IIHT Certified Professional Diploma in IT Security is designed to take care of the Confidentiality, Integrity and availability of an organization.
- The program is designed to equip learners with program specific skills in the following domains – Network Fundamentals, Server Infrastructure, Operating System, Desktop Security, Network Security, Intrusion Detection & Prevention System and Antivirus Management.
- The program is designed to enrich learner’s knowledge on the evolution, importance, security concepts, identifying information security devices.
- The program will facilitate learners in enriching not only the technical skills such as installing, configuring & troubleshooting information security devices, but also soft skills required of working environment for Information Security.
- The program is designed to teach learners how to secure desktop, server, data plane protection & networks. It also explains about Firewall auditing tools Encryption technologies.
- The program is designed to equip learners with the following technical skills: configuring, deploying, implementing & managing IDS.
- The program helps learners in developing knowledge on IPS technologies, IDPS Product Selection Analysis, performing virus scan, configuring log sources, log generation, log storage & disposal.

A fresher would have generally no clue on IT security. Hence we advise a fresher to take up foundation program as given in this brochure.

The student apart from learning the skills meant to be an L1 IT security professional also learns:

- Securing Desktop
- Securing Enterprise OS
- Securing Servers
- Network Security (Both Hardware & Software Firewalling)
- Securing Data
- Intrusion Detection & Prevention
- Antivirus Management

Thus this is world’s unique IT Security Program teaching a student job specific & comprehensive Security skills.

Eligibility

To understand security management practice for Certified Security Professional Program, learners are expected to be familiar with the skills listed below. Else, they have to learn the foundational subjects prior, which are designed to prepare them with basic concepts required of IT security program.

Basic skills required

- Computer Hardware and software fundamentals
- Knowledge on operating system, Internet and web browsers
- Windows desktop environment – installing, configuring & managing network devices
- Basic Linux commands
- Network Fundamentals – implementing & troubleshooting knowledge on Ethernet LANs, WANs, addressing & sub netting IP versions
- Server Infrastructure – Windows Server basics including installing & managing Windows Server, infrastructure services, PowerShell & Basics of Hyper-V
- Storage administration
- Cloud Computing Basics – understanding business & technical perspectives of Cloud Computing

Foundational subjects

- Computer fundamentals
- Windows Desktop
- Linux Desktop
- Network Fundamentals
- Server Infrastructure
- Storage Essentials
- Cloud Computing



Course Outline

Information Security Studies

Managing Desktop Security

Intrusion Detection & Prevention System - IDPS

Managing Server Security

Network Security Management

Antivirus Management

Learning Support

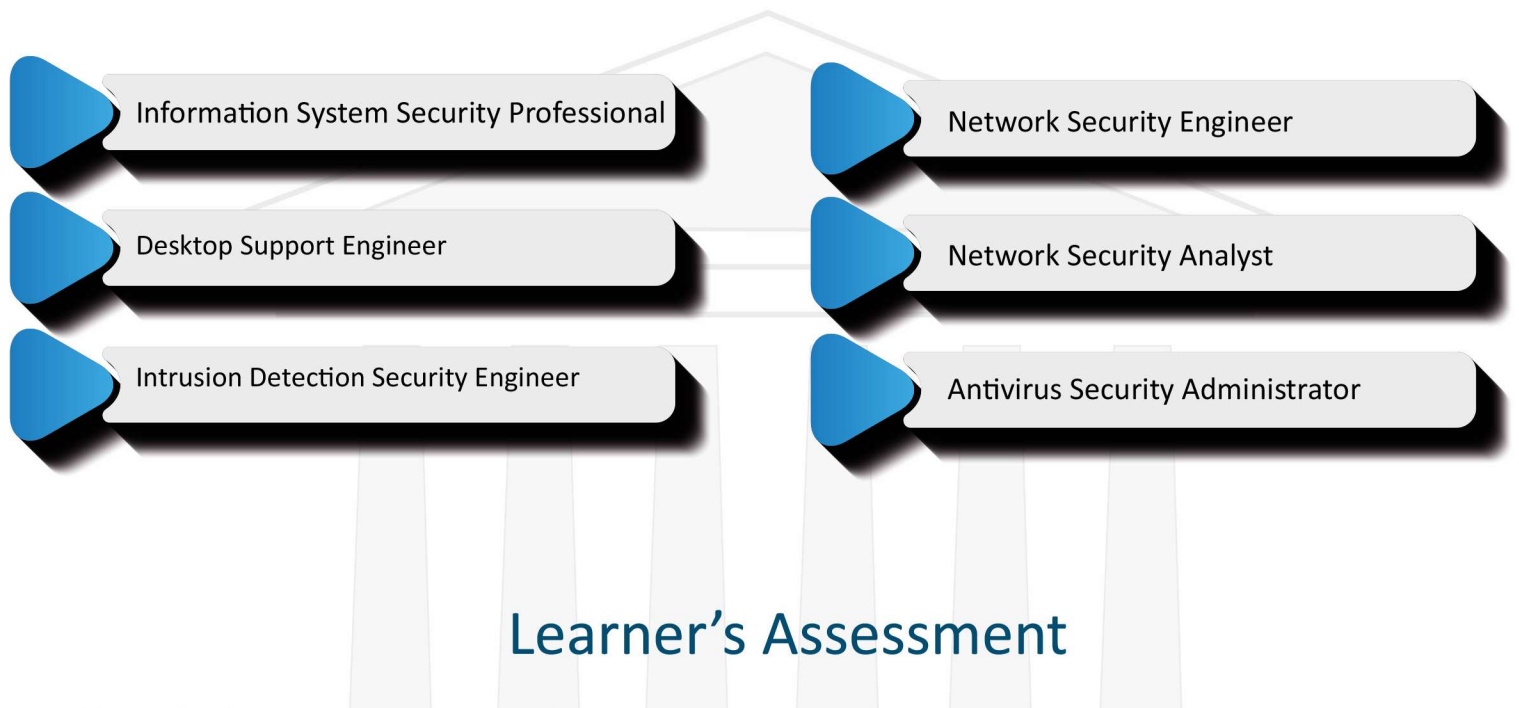
- An integrated teaching and learning approach is followed. Learning for this program is facilitated through multiple ways. It involves a series of class room lectures, practical/hands on at the computer
- Laboratory and project work.
- Practical/hands-on at computer laboratory helps in developing practical skills and before understanding of the theory and concepts. In computer labs, learners can discuss with competent staff who help them in understanding the subject and the technology.
- Learners undertake a project work which helps them to understand the use of knowledge acquired in the subject in the real life situations in industry.
- Learners will be given with formative assessment on their work in the form of daily quizzes, classroom discussions, practical tests. This will help them in getting more clarity on subject and the technology..



Academic Support

- Learners will be provided with a learner handbook, containing the list of reference books and internet sites. The assessment and re-assessment procedures are explained to the learners and the relevant procedures documents are provided to them. It is also ensured that all relevant information is accessible to learners.

Job Roles



Formative Assessment

Formative assessment is the feedback given to learners against their course work. Formative assessment may be given either orally or in written. Formative assessment decisions will not be considered for the award of credits/marks.

Learners will be given with formative assessment during the program delivery on their course work. This is in the form of daily quizzes, discussions and practical tests.

Summative Assessment

Summative assessment is the assessment decision given to learners on their course work against desired learning outcomes. Summative assessment decisions will be considered for the award of credits/marks.

For this program, module test will be conducted at the end of the course.

Skills

Concept Class-20 Hours

Information Security Studies

Knowledge on Installation, Configuration and Troubleshooting Security devices, Basics of Information Security concepts, Security Incidents – Roles and Responsibilities.

Concept Class-40 Hours

Managing Desktop Security

Basics of Windows Defender Antivirus, Knowledge on Preventive and Precautionary Security Measures, Maintenance of File history, Backup, Data Restore and Sync, Basics on Linux Desktop Security.

Concept Class-40 Hours

Managing Server Security

Knowledge on Windows Server 2016 Security, Installation and Disabling Processes of Windows Defender Antivirus, Basics of Firewall settings with Advanced Security, Knowledge on technologies related to Encryption.

Concept Class-30 Hours

Network Security Management

Measures for Traffic Securing Management, Configuring IPv6 Routing and Development.

Concept Class-30 Hours

Intrusion Detection and Prevention System – IDPS

Knowledge on IDS Configuration, Implementation, Understanding IDPS Product Selection Analysis.

Concept Class-20 Hours

Antivirus Management

Knowledge on Backup and Restore, Basics of Quick Clean and Shredder Qualities.





Few Of The List Of Potential Employees



Connecting Talent to Opportunity

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