



Course Overview:

Risk Assessment Course

Step into the world of Cybersecurity Risk Assessment and build a strong foundation in identifying, analyzing, and managing risks in IT systems. This course is designed for beginners, IT graduates, and tech enthusiasts who want to start a career in cybersecurity and risk management.

You will learn:

- Fundamentals of Risk Assessment – Concepts, Threats, Vulnerabilities, Impact & Likelihood
- Risk Identification & Analysis – Qualitative & Quantitative Approaches
- Vulnerability Assessment – Scanning, Classification, CVSS Rating
- Threat Modeling – STRIDE, PASTA, OCTAVE Methods
- Risk Mitigation & Security Controls – Preventive, Detective, Corrective Controls
- Third-Party & Supply Chain Risk – Vendor Security Assessment & Compliance
- Risk Monitoring & Reporting – Metrics, Dashboards, and Continuous Assessment
- Regulatory & Framework Alignment – ISO 31000, NIST RMF, CIS Controls, GDPR, HIPAA, PCI DSS

Through practical examples and hands-on labs, you will gain the skills to assess IT risks, implement mitigation strategies, and prepare risk reports for real-world environments.

By the end of the course, you will have job-ready skills required to work as a Risk Analyst or IT Risk Management professional, and confidently contribute to securing organizational assets.

1. Introduction to Risk Assessment :

- What is Risk Assessment?
- Importance of Risk Assessment in Cybersecurity
- Types of Risks: Strategic, Operational, Financial, Cybersecurity
- Risk Terminology: Threat, Vulnerability, Impact, Likelihood

2. Risk Management Fundamentals :

- Risk Identification
- Risk Analysis (Qualitative & Quantitative)
- Risk Evaluation & Prioritization
- Risk Appetite & Tolerance

3. Vulnerability Assessment:

- Vulnerability Scanning Tools & Techniques
- Vulnerability Classification & Rating (CVSS)
- Infrastructure Vulnerabilities (Network, Systems, Cloud)
- Application Vulnerabilities (Web & API)

4. Threat Modeling :

- Introduction to Threat Modeling
- Identifying Assets & Threats
- Attack Vectors & Scenarios
- STRIDE / PASTA / OCTAVE Methodologies

5. Penetration Testing :

- Basics of Penetration Testing
- Types of Pen Tests: Network, Application, Wireless, Social Engineering
- Red Team vs Blue Team Exercises
- Reporting & Remediation

6. Third-Party & Supply Chain Risk :

- 3rd Party & 4th Party Risk Management
- Vendor Security Assessment
- Contractual & Compliance Considerations

7. Risk Mitigation & Controls :

- Risk Treatment Options: Avoid, Mitigate, Transfer, Accept
- Security Controls: Preventive, Detective, Corrective
- Implementation of Controls in Network, Application, and Cloud

8. Risk Monitoring & Reporting :

- Risk Monitoring Services (Risk Score & Dashboards)
- Continuous Risk Assessment
- Reporting Risk to Management & Stakeholders
- Metrics & KPIs for Risk Management

9. Regulatory & Framework Alignment :

- ISO 31000 – Risk Management Guidelines
- NIST Risk Management Framework (RMF)
- CIS Controls & Benchmarks
- Compliance Requirements (GDPR, HIPAA, PCI DSS)

10. Hands-On Labs & Case Studies :

- Real-Time Vulnerability Assessment
- Conducting Penetration Testing
- Risk Assessment of IT Infrastructure
- Third-Party Risk Evaluation
- Preparing Risk Reports & Risk Treatment Plans

11. Career & Certification Guidance :

- Risk Analyst / Risk Manager Roles
- Certifications: CRISC, ISO 31000, CISSP (Domain: Risk Management), CISM
- Resume & Interview Preparation

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