

Emerging Technologies

Certificate of Cloud Security Knowledge (CCSK) Program

Curriculum

Program Outline:

Module 1: Fundamentals of Cloud Security

- 1. Introduction to Cloud Security
 - o Core principles of cloud security.
 - o Overview of cloud computing models and services.
 - o Key cloud security challenges and solutions.

2. Cloud Security Controls

- o Understanding cloud security controls and their implementation.
- o Best practices for securing cloud environments.
- Strategies for protecting cloud data and applications.

Module 2: Advanced Cloud Security Principles

3. CSA Security Guidance

- In-depth exploration of CSA Security Guidance for Critical Areas of Focus in Cloud Computing.
- o Applying CSA principles to secure cloud environments.
- Case studies and real-world applications.

4. ENISA Cloud Computing Risk Assessment

o Understanding ENISA Cloud Computing Risk Assessment.



- o Identifying and managing cloud security risks.
- o Implementing ENISA recommendations for cloud security.

5. Cloud Compliance and Governance

- o Ensuring compliance with cloud security standards and regulations.
- o Implementing governance frameworks for cloud security.
- o Best practices for maintaining compliance in cloud environments.

6. Cloud Incident Response

- o Developing and implementing cloud incident response plans.
- Strategies for managing cloud security incidents.
- o Case studies of cloud security incidents and responses.

Module 3: Practical Applications

7. Hands-on Cloud Security Projects

- o Real-world projects to apply cloud security principles.
- Designing and implementing cloud security solutions.
- o Collaborating with peers and mentors to solve complex challenges.

8. Cloud Security Integration

- o Integrating cloud security controls with existing systems.
- o Best practices for seamless cloud security integration.
- o Strategies for maintaining security in hybrid cloud environments.

Module 4: Exam Preparation

9. CCSK Exam Preparation

- o Comprehensive preparation for the CCSK exam.
- o Practice exams and review sessions.
- o Exam tips and strategies for success.

10. Advanced Cloud Security Techniques

- o Deepening knowledge and exploring advanced cloud security capabilities.
- o Implementing advanced security measures for cloud environments.



Elective Modules

11. Data Ethics and Privacy

o Ethical considerations, privacy laws, and compliance strategies.

12. AI for Cloud Security

o Implementing AI solutions in cloud security.

13. Big Data Security

o Managing security for big data applications in the cloud.

14. Cloud DevOps Security

o CI/CD pipelines, automation, and containerization security.

15. Cloud Security Project Management

o Leading cloud security projects and ensuring successful delivery.

16. IoT Security in Cloud

o Integrating and securing IoT devices in cloud environments.

Websites:

- https://chools.in/
- https://ramaqchools.com/
- https://www.choolsgroup.com/