

Emerging Technologies

Cloud Architect Certification Program

Curriculum

Program Outline :

Module 1: Fundamentals of Cloud Computing

- 1. Introduction to Cloud Computing**
 - Core principles, concepts, and platforms.
- 2. Cloud Service Models**
 - Understanding IaaS, PaaS, SaaS.

Module 2: Advanced Cloud Architecture

- 3. Designing Cloud Solutions**
 - Best practices for designing cloud solutions.
- 4. Cloud Security and Compliance**
 - Ensuring security and compliance in cloud solutions.
- 5. Optimizing Cloud Performance**
 - Techniques for optimizing performance and cost-efficiency.
- 6. Cloud Deployment and Management**
 - Managing cloud deployments using various platforms.

Module 3: Practical Applications

- 7. Hands-on Cloud Projects**
 - Real-world projects to apply cloud architecture skills.

8. Cloud Integration

- Integrating cloud solutions with existing systems.

Module 4: Capstone Project

9. Integration of Learned Skills

- Apply tools and techniques to real-world cloud architecture projects.

10. Advanced Cloud Techniques

- Deepening knowledge and exploring advanced cloud capabilities.

Elective Modules

11. Data Ethics and Privacy

- Ethical considerations, privacy laws, compliance strategies.

12. AI for Cloud Computing

- Implementing AI solutions in cloud architectures.

13. Big Data in the Cloud

- Managing big data applications in cloud environments.

14. Cloud DevOps

- CI/CD pipelines, automation, and containerization with Docker, Kubernetes.

15. Cloud Project Management

- Leading cloud projects, ensuring successful delivery.

16. Cloud for IoT

- Integrating cloud solutions with IoT devices.

Websites:

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