

Emerging Technologies

AWS Certified Solution Architect Program

Curriculum

Program Outline:

Module 1: Fundamentals of AWS

- 1. Introduction to AWS
 - o Core principles, services, and tools.
- 2. AWS Service Models
 - o Understanding IaaS, PaaS, SaaS on AWS.

Module 2: Advanced AWS Solution Architecture

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

Module 3: Practical Applications

- 7. Hands-on AWS Projects
 - o Real-world projects to apply AWS solution architecture skills.



8. AWS Integration

o Integrating AWS solutions with existing systems.

Module 4: Capstone Project

9. Integration of Learned Skills

o Apply tools and techniques to real-world AWS projects.

10. Advanced AWS Techniques

o Deepening knowledge and exploring advanced AWS capabilities.

Elective Modules

11. Data Ethics and Privacy

o Ethical considerations, privacy laws, compliance strategies.

12. AI for AWS

o Implementing AI solutions in AWS architectures.

13. Big Data in AWS

o Managing big data applications in AWS environments.

14. AWS DevOps

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

15. AWS Project Management

o Leading AWS projects, ensuring successful delivery.

16. AWS for IoT

o Integrating AWS solutions with IoT devices.

Websites:

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