

Emerging Technologies

Cisco Certified Design Expert (CCDE) Program

Curriculum

Program Outline :

Module 1: Fundamentals of Network Design

1. Introduction to Network Design

- Core principles, tools, and industry applications.

2. Requirements Analysis

- Translating business and technical requirements into functional specifications.

3. Basic Site Survey Procedures

- Conducting initial site surveys for network design.

4. Basic Network Design

- Designing basic network solutions.

Module 2: Advanced Network Design Techniques

5. Advanced Site Survey Procedures

- Conducting advanced site surveys for network design.

6. Advanced Network Design

- Designing advanced network solutions.

7. Design Validation Techniques

- Validating design through advanced testing and analysis.

8. Framework Connections

- Integrating network design with existing frameworks.

Module 3: Practical Applications

9. Practical Network Design Projects

- Developing and implementing network design projects.

10. Operation and Maintenance

- Operating and maintaining network solutions.

11. Oversight and Governance

- Managing and overseeing network governance.

12. Business Intelligence Applications

- Using data for network design decision making.

Module 4: Capstone Project

13. Integration of Learned Skills

- Apply tools and techniques to real-world network design problems.

14. Advanced Network Design Systems

- Developing complex network design systems.

15. Cloud Network Design Management

- Securing and managing network design in cloud environments.

16. AI for Network Design

- Implementing AI solutions in network design.

Elective Modules

17. Data Ethics and Privacy

- Ethical considerations, privacy laws, compliance strategies.

18. Predictive Analytics with Network Design Management

- Building and validating predictive models.

19. AI for Network Design Management

- Implementing AI solutions in network design.

20. Advanced Data Warehousing Techniques

- Optimizing data warehousing solutions.

21. Data-Driven Network Design Decision Making

- Using data to inform and drive network design strategies.

22. Cloud Network Design Solutions

- Deploying network design management systems on cloud platforms.

23. Network Design Project Management

- Leading network design projects, ensuring successful delivery.

24. Big Data Security

- Securing data in big data environments.

25. IoT Network Design

- Securing and managing IoT devices and network designs.

Websites:

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