



GOOGLE CLOUD CERTIFICATION PROGRAM

RC™ Ramaq
Chools
Consulting & Training

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INTRODUCTION TO GOOGLE CLOUD CERTIFICATION

Hello, future Google Cloud professional! The Google Cloud Certification program at Chools is a comprehensive training program that prepares you for the role of a Google Cloud professional. You'll learn to design, develop, and manage cloud solutions using Google Cloud products and services. By earning a Google Cloud Certification, you can demonstrate your technical proficiency and credibility to employers, clients, and peers. This certification will help you advance your career and increase your earning potential in the growing field of cloud computing.





Why Choose Chools?

Numbers That Speak for Themselves:

- 10,000+ Successful Alumni: Join a network of impactful professionals.
- 95% Job Placement Rate: Secure your future with Chools' proven track record.
- 20+ Years of Excellence: Trust in a legacy of education and industry expertise.
- 200+ Industry Partnerships: Leverage our connections for real-world insights and opportunities.

What Sets Us Apart?

- **Expert Instructors:** Learn from industry veterans with hands-on experience.
- **Hybrid Learning Model:** Balance online flexibility with in-person engagement.
- **Comprehensive Curriculum:** Stay ahead with courses designed meet market demands.
- **Community and Networking:** Be part of an active community of learners and professionals.

Why Can Apply?

Eligibility Criteria:

- **Educational Background:** A bachelor's degree in any subject, preferably with a STEM background.
- **Skills:** Good command of English.



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- **Work Experience:** A minimum of 1 or 2 years of working experience in designing and deploying applications on the Azure platform.
 - **Technical Skills:** Expertise in at least one high-level programming language, ability to identify the requirements of an application, defining best practices for securing, governing, and administering Google Cloud.

Program Overview

The Google Cloud Certification Program at Chools provides an extensive education in cloud computing using Google Cloud. Our curriculum covers a wide range of topics to ensure a thorough understanding, combining theoretical knowledge with practical, hands-on experience.

Learning Mode:

- **Hybrid Learning Model:** Combines online learning with in-person sessions for flexibility and interactive engagement.
- **Interactive Sessions:** Includes live webinars, workshops, and Q&A forums with expert instructors and peers.
- **Self-paced Learning:** Access course materials anytime, allowing you to learn at your own pace.



Skills Learned

- **Google Cloud Fundamentals:** Understanding core Google Cloud services and principles.
- **Google Cloud Solution Architecture:** Designing, developing, and managing Google Cloud solutions.
- **Programming Languages:** Proficiency in programming languages like Python, Java, or Go for Google Cloud solutions.
- **Cloud Security:** Ensuring the security of Google Cloud solutions.
- **Performance Optimization:** Optimizing Google Cloud solutions for performance and cost-efficiency.
- **Google Cloud Deployment:** Designing and managing Google Cloud deployments.

Job Positions and Opportunities

Career Paths:

- Google Cloud Architect
- Cloud Engineer
- Cloud Consultant
- DevOps Engineer
- Google Cloud Security Specialist

Industry Demand:

- High demand across various sectors
- Competitive salaries
- Strong growth potential

Key Industry Verticals

Skill Application Areas:

- Technology
- Finance
- Healthcare
- Retail
- Marketing
- Telecommunications
- Education
- Logistics and Supply Chain
- Government and Public Services



Curriculum Highlights:

- **Fundamental Knowledge:** Core principles of Google Cloud.
- **Advanced Techniques:** In-depth understanding of Google Cloud solution architecture and best practices.
- **Real-World Applications:** Practical projects and case studies.
- **Capstone Project:** Integrating all your skills and knowledge.

Professional Development:

- **Continuous Learning:** Stay updated with the latest trends in Google Cloud.
- **Networking Opportunities:** Connect with industry experts, peers, and alumni.
- **Ethical Considerations:** Learn best practices and industry standards.

Program Objectives

- Master technical skills in Google Cloud solution architecture.
- Implement best practices for designing, developing, and managing Google Cloud solutions.
- Explore Google Cloud services and the Google Cloud Architecture Framework.
- Address real-world cloud computing challenges.
- Understand best practices in Google Cloud solution architecture.
- Foster continuous learning.
- Encourage teamwork and collaboration.
- Prepare for advanced roles in Google Cloud solution architecture.

Expected Outcomes

- Proficiency in Google Cloud tools and techniques.
 - Practical experience through hands-on projects.
 - Strong analytical and problem-solving skills.
 - Application of best practices in Google Cloud solution architecture.
 - Innovation in cloud computing solutions.
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PROGRAM OUTLINE

Stage 1: Fundamentals of Google Cloud

1. Introduction to Google Cloud

- Core principles, services, and tools of Google Cloud.
- Benefits of using Google Cloud for cloud computing.
- Overview of Google Cloud global infrastructure and regions.

2. Google Cloud Service Models

- Understanding IaaS, PaaS, and SaaS on Google Cloud.
- Key differences and use cases for each service model.
- Selecting the appropriate service model for different applications.

Stage 2: Advanced Google Cloud Solution Architecture

3. Designing Google Cloud Solutions

- Best practices for designing scalable and reliable Google Cloud solutions.
- Applying the Google Cloud Architecture Framework.
- Selecting the appropriate Google Cloud services for specific use cases.

4. Google Cloud Security and Compliance

- Ensuring security and compliance in Google Cloud solutions.
- Implementing identity and access management with Google Cloud IAM.
- Understanding data protection, encryption, and compliance requirements.

Stage 3: Practical Applications

- ### 5. Optimizing Google Cloud Performance
- Techniques for optimizing performance and cost-efficiency of Google Cloud solutions.
 - Implementing caching, content delivery networks (CDNs), and other performance-enhancing services.
 - Monitoring and managing resource usage to optimize costs.

6. Google Cloud Deployment and Management

- Managing Google Cloud deployments using tools like Google Cloud Deployment Manager, Terraform, and Google Cloud CLI.
- Automating deployments and configuration management.
- Best practices for managing and monitoring Google Cloud resources.

Stage 3: Practical Applications

7. Hands-on Google Cloud Projects

- Real-world projects to apply Google Cloud solution architecture skills.
- Designing and implementing cloud solutions for various scenarios.
- Collaborating with peers and mentors to solve complex challenges.

8. Google Cloud Integration

- Integrating Google Cloud solutions with existing on-premises and cloud systems.



PROGRAM OUTLINE



- Using Google Cloud Hybrid Cloud solutions to create seamless integrations.
- Best practices for data migration and synchronization.

Stage 4: Capstone Project

9. Integration of Learned Skills

- Apply tools and techniques to design and implement a comprehensive Google Cloud solution.
- Demonstrate your ability to solve real-world problems using Google Cloud services.

10. Advanced Google Cloud Techniques

- Deepening knowledge and exploring advanced Google Cloud capabilities.
- Implementing advanced networking, security, and data management solutions.

Elective Modules

11. Data Ethics and Privacy

- Ethical considerations, privacy laws, and compliance strategies.

12. AI for Google Cloud

- Implementing AI solutions in Google Cloud architectures.

13. Big Data in Google Cloud

- Managing big data applications in Google Cloud environments.

14. Google Cloud DevOps

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

15. Google Cloud Project Management

- Leading Google Cloud projects and ensuring successful delivery.

16. Google Cloud for IoT

- Integrating Google Cloud solutions with IoT devices.

Enrollment Now Open!

Take the first step towards becoming a certified Google Cloud expert. Enroll in our Google Cloud Certification Program and enhance your career with Chools.