



# MICROSOFT AZURE CERTIFICATION PROGRAM

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**RC**™ Ramaq  
Chools  
Consulting & Training

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# INTRODUCTION TO MICROSOFT AZURE CERTIFICATION

Hello, future Azure expert! The Microsoft Azure Certification program at Chools is designed to build, develop, and validate your skills and knowledge in using Microsoft Azure, a cloud computing platform that offers various services and solutions for different needs. By earning a Microsoft Azure Certification, you can demonstrate your expertise in designing, developing, and managing cloud solutions using Azure to employers, clients, and peers. This certification enhances your technical proficiency and credibility, advancing your career and increasing your earning potential in the rapidly 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.

## Who 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 Azure.

## Program Overview

**The Microsoft Azure Certification Program at Chools offers an extensive education in cloud computing using Microsoft Azure. 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

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

## Job Positions and Opportunities

- **Career Paths:** Azure Solution Architect, Cloud Architect, Cloud Engineer, Cloud Consultant, DevOps Engineer, Azure Security Specialist
- **Industry Demand:** High demand across various sectors, competitive salaries, and 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 Microsoft Azure.
- **Advanced Techniques:** In-depth understanding of Azure 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 Azure.
- **Networking Opportunities:** Connect with industry experts, peers, and alumni.
- **Ethical Considerations:** Learn best practices and industry standards.

By completing the Microsoft Azure Certification Program at Chools, you'll gain the skills, knowledge, and certification needed to excel in Azure solution architecture, positioning yourself as a valuable asset to any organization.

## Program Objectives

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

## Expected Outcomes

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

## Stage 1: Fundamentals of Microsoft Azure

### 1. Introduction to Microsoft Azure

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

### 2. Azure Service Models

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

## Stage 2: Advanced Azure Solution Architecture

### 3. Designing Azure Solutions

- Best practices for designing scalable and reliable Azure solutions.
- Applying the Azure Well-Architected Framework.
- Selecting the appropriate Azure services for specific use cases.

### 4. Azure Security and Compliance

- Ensuring security and compliance in Azure solutions.
- Implementing identity and access management with Azure Active Directory.
- Understanding data protection, encryption, and compliance requirements.

## Stage 3: Practical Applications

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

### 6. Azure Deployment and Management

- Managing Azure deployments using tools like Azure Resource Manager (ARM) templates, Azure DevOps, and Azure CLI.
- Automating deployments and configuration management.
- Best practices for managing and monitoring Azure resources.

### 7. Hands-on Azure Projects

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

### 8. Azure Integration

- Integrating Azure solutions with existing on-premises and cloud systems.
- Using Azure Hybrid Cloud solutions to create seamless integrations.
- Best practices for data migration and synchronization.





# PROGRAM OUTLINE

## Stage 4: Capstone Project

### 9. Integration of Learned Skills

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

### 10. Advanced Azure Techniques

- Deepening knowledge and exploring advanced Azure 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 Azure

- Implementing AI solutions in Azure architectures.

### 13. Big Data in Azure

- Managing big data applications in Azure environments.

### 14. Azure DevOps

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

### 15. Azure Project Management

- Leading Azure projects and ensuring successful delivery.

### 16. Azure for IoT

- Integrating Azure solutions with IoT devices.

## Enrollment Now Open!

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