

Certified MS-SQL Server Administrator



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Microsoft SQL Server Administration, often referred to as MS SQL Server Administration, is the process of managing and maintaining Microsoft SQL Server databases and the systems that use them. SQL Server is a widely used relational database management system (RDBMS) developed by Microsoft, and SQL Server administrators are responsible for ensuring the availability, security, performance, and integrity of SQL Server databases in an organization.

SQL Server administrators play a critical role in ensuring that SQL Server databases meet the organization's data management needs while maintaining data integrity, security, and performance. They work closely with database developers, system administrators, and other IT professionals to support the organization's data-related goals.

Why should one take this certification?

This Course is intended for professionals and graduates wanting to excel in their chosen areas. It is also well suited for those who are already working and would like to take certification for further career progression.

Earning Vskills SQL Server Administration Certification can help candidate differentiate in today's competitive job market, broaden their employment opportunities by displaying their advanced skills, and result in higher earning potential.

Who will benefit from taking this certification?

Job seekers looking to find employment in web development, or IT departments of various companies, students generally wanting to improve their skill set and make their CV stronger and existing employees looking for a better role can prove their employers the value of their skills through this certification.

Test Details

- **Duration:** 60 minutes
- No. of questions: 50
- Maximum marks: 50, Passing marks: 25 (50%)

There is no negative marking in this module.

Fee Structure

Rs. 3,499/- (Excludes taxes)*

*Fees may change without prior notice, please refer http://www.vskills.in for updated fees

Companies that hire Vskills Certified SQL Server Administrators

SQL Server Administration professionals are in great demand, especially it companies are looking for skilled SQL Server Administration Professionals. Here is the list of some of the companies hiring SQL Server Administration Professionals, IBM, Barclays, Accenture, JP Morgan, Siemens, Capgemini, Flipkart, Amazon, Toptal, Mindtree, Genpact, HSBC etc.

Table of Contents

1. Database Fundamentals

- 1.1 Introduction to Relational Databases
- 1.2 Understanding SQL Server Editions and Versions
- 1.3 Database Objects (Tables, Views, Indexes, etc.)

2. SQL Server Installation and Configuration

- 2.1 System Requirements
- 2.2 Installation Options (Standalone, Clustered, etc.)
- 2.3 Post-installation Configuration

3. Database Creation and Design

- 3.1 Creating Databases
- 3.2 Schema Design
- 3.3 Data Types and Constraints

4. Data Modification and Querying

- 4.1 SQL Query Language (SELECT, INSERT, UPDATE, DELETE)
- 4.2 Data Manipulation Language (DML)
- 4.3 Query Optimization and Performance Tuning

5. Security and Authorization

- 5.1 Authentication Modes (Windows Authentication, SQL Server Authentication)
- 5.2 User and Role Management
- 5.3 Permissions and Access Control

6. Backup and Restore

- 6.1 Database Backup Strategies 6.2 Database Restore Processes
- 6.3 Backup and Restore Options

7. High Availability and Disaster Recovery

- 7.1 SQL Server Always On Availability Groups
- 7.2 Database Mirroring
- 7.3 Log Shipping
- 7.4 Failover Clustering

8. Performance Optimization

- 8.1 Query Execution Plans
- 8.2 Indexing Strategies
- 8.3 Monitoring and Tuning
- 8.4 Performance Counters and DMVs

9. Automation and Scripting

9.1 SQL Server Agent Jobs9.2 T-SQL Scripting9.3 PowerShell for SQL Server Administration

10. Maintenance and Monitoring

10.1 Database Maintenance Plans10.2 SQL Server Profiler10.3 SQL Server Management Studio (SSMS)10.4 SQL Server Data Tools (SSDT)

11. Replication and Data Distribution

11.1 Transactional Replication11.2 Snapshot Replication11.3 Peer-to-Peer Replication

11.4 Data Distribution

12. SQL Server Integration Services (SSIS)

12.1 ETL (Extract, Transform, Load) Processes12.2 Package Creation and Deployment12.3 SSIS Catalogs

13. SQL Server Reporting Services (SSRS)

13.1 Report Design and Development13.2 Report Deployment and Configuration13.3 Report Subscription and Security

14. SQL Server Analysis Services (SSAS)

14.1 Multidimensional and Tabular Models

14.2 Cube Design and Processing

14.3 MDX and DAX Queries

15. SQL Server Maintenance and Troubleshooting

15.1 Database Corruption and Recovery

15.2 Error Handling and Event Logs

15.3 Troubleshooting Common Issues

16. SQL Server Upgrades and Patching

16.1 Planning and Performing Upgrades16.2 Applying Service Packs and Cumulative Updates

17. SQL Server Security Best Practices

- 17.1 Security Auditing
- 17.2 Encryption and Data Masking
- 17.3 Compliance and Regulatory Requirements

18. SQL Server Cloud Offerings (e.g., Azure SQL Database)

- 18.1 Azure SQL Deployment Options
- 18.2 Management and Monitoring in the Cloud

19. Disaster Recovery Planning

- 19.1 Backup and Restore Strategies
- 19.2 Business Continuity and High Availability Planning

Certifications

Accounting, Banking & Finance

- Certified GST Professional - Certified AML-KYC Compliance Officer
- Certified Business Accountant
- Certified BASEL III Professional
- Certified GAAP Accounting Standards Professional
- Certified Treasury Markets Professional

> Big Data

- Certified Hadoop and Mapreduce Professional

Cloud Computing

- Certified Cloud Computing Professional

> Design

- Certified Interior Designer

> Digital Media

- Certified Social Media Marketing Professional
- Certified Inbound Marketing Professional
- Certified Digital Marketing Professional

▶ Foreign Trade

- Certified Export Import (Foreign Trade) Professional

> Health, Nutrition and Well Being

- Certified Fitness Instructor

> Hospitality

- Certified Restaurant Team Member (Hospitality)

>Human Resources

- Certified HR Compensation Manager
- Certified HR Staffing Manager
- Certified Human Resources Manager
- Certified Performance Appraisal Manager

> Office Skills

- Certified Data Entry Operator
- Certified Office Administrator

>Project Management

- Certified Master in Project Management
- Certified Scrum Specialist

▶ Real Estate

- Certified Real Estate Consultant

Marketing

 Certified Marketing Manager

>Quality

- Certified Six Sigma Green Belt Professional
- Certified Six Sigma Black Belt Professional
- Certified TQM Professional

>Logistics & Supply Chain Management

- Certified International Logistics Professional
- Certified Logistics & SCM Professional
- Certified Supply Chain Management Professional

>Legal

- Certified IPR & Legal Manager
- Certified Labour Law Analyst
- Certified Business Law Analyst
- Certified Corporate Law Analyst

>Information Technology

- Certified Angular JS Professional
- Certified Basic Network Support Professional
- Certified Business Intelligence Professional
- Certified Core Java Developer
- Certified E-commerce Professional
- Certified IT Support Professional Certified PHP Professional
- Certified Selenium Professional

Mobile Application Development

- Certified Android Apps Developer
- Certified iPhone Apps Developer

> Security

- Certified Ethical Hacking and Security Professional
- Certified Network Security Professional

> Management

- Certified Corporate Governance Professional
- Certified Corporate Social Responsibility Professional
- Certified Leadership Skills Professional

>Life Skills

- Certified Business Communication Specialist
- Certified Public Relations Officer

> Media

- Certified Advertising Manager
- Certified Advertising Sales Professional

> Sales, BPO

- Certified Sales Manager
- Certified Telesales Executive

& many more job related certifications

Contact us at: V-Skills 011-473 44 723 or info@vskills.in www.vskills.in